

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
July 1998

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State of California

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Secretary for Resources
The Resources Agency

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State of California
The Resources Agency

Department of Water Resources
Division of Operations and Maintenance

**State Water Project
Operations Data**
for the Month of July 1998

Table of Contents

Monthly Highlights

Oroville Field Division Water Operations

Table

- 1 Antelope Lake, Daily Operation
- 2 Frenchman Lake, Daily Operation
- 3 Lake Davis, Daily Operation
- 4 Lake Oroville, Daily Operation
- 5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation
- 6 Thermalito Afterbay, Daily Operation
- 7 Oroville-Thermalito Complex, Water Temperature Data

Delta Field Division Water Operations

Table

- 8 Aqueduct Operation, Delta Field Division
- 9 Delta Field Division Plant Data
- 10 Clifton Court Forebay, Daily Operation of Gates
- 11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries
- 12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries
- 13 Lake Del Valle, Daily Operation

San Luis Field Division Water Operations

Table

- 14 Consolidated State-Federal O'Neill Forebay, Daily Operations
- 15 Consolidated State-Federal San Luis Reservoir, Daily Operations
- 16 San Luis Field Division Plant Data
- 17 Consolidated State-Federal Los Banos Reservoir, Daily Operations
- 18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations
- 19a Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries
- 19b Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries
- 20 Consolidated State-Federal San Luis Canal, Daily Operations

San Joaquin Field Division Water Operations

Table

- 21 San Joaquin Field Division Plant Data
- 22a Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 22b Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 22c Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries
- 23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

Southern Field Division Water Operations

Table

- 24 Southern Field Division Plant Data
- 25 Pyramid Lake, Daily Operation
- 26 Elderberry Forebay, Daily Operation
- 27 Castaic Lake, Daily Operation
- 28 Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch)
- 29 Silverwood Lake, Daily Operation
- 30 Lake Perris, Daily Operation
- 31a Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch)
- 31b Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch)

Water Quality Operations

Table

- 32 Water Quality at Selected SWP Locations
- 33 Water Quality at Selected Delta Stations
- 34 Pesticides, Herbicides, and Other Organic Substances Detected in the SWP

Energy Operations

Table

- 35 Oroville and Delta Field Divisions Energy Data
- 36 San Luis Field Division Energy Data
- 37 San Joaquin Field Division Pumping Plant Energy Load Data
- 38 Southern Field Division Energy Data

MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of July 1998.

The first part of the summer was relatively cool, with no sustained hot weather until mid-July. The mild weather helped slow snowmelt, making possible good reservoir regulation of the very large runoff. Sacramento River system water year runoff was projected to be about 31.3 MAF. This is 173 percent of average, the seventh wettest on record. The water year total for the four major rivers of the San Joaquin River system was projected to be about 10.5 MAF, 184 percent of average, the ninth wettest since 1905. April through July snowmelt runoff for these two basins was around 190 percent of average, with 12.5 MAF in the Sacramento River and about 7 MAF on the San Joaquin River.

Statewide precipitation remained around 175 percent of average. The northern Sierra accumulations were almost 81 inches, 165 percent of average. Little rain occurred during July, although an invasion of southwest monsoon moisture around July 22 caused a few showers throughout the State.

Statewide reservoir storage was about 130 percent of average, compared to 92 percent one year ago. Approximately 94 percent of available storage is being used. On July 31, total storage in major SWP reservoirs was about 5.19 MAF, compared with 3.97 MAF at this time in 1997. July 31 storage at Lake Oroville was about 3.34 MAF, compared to 2.44 MAF at this time last year. SWP share of San Luis Reservoir storage was about 1.01 MAF, as compared with 553,683 AF at this time last year. Combined storage in our southern reservoirs was 663,700 AF, compared with 606,400 AF at this time last year. Water demands were unusually low due to continued cool and wet water conditions. SWP water deliveries for 1998 through July were 960,900 AF. This is a combination of project, transfer, and exchange waters. This is 546,000 AF less than that delivered during the same period in 1997.

On July 1, the SWP became a "Scheduling Coordinator" with the California Independent System Operator (ISO). The ISO is responsible for the operation of the electrical grid in California and the dispatch of generators that are made available in the day-ahead and hour-ahead markets by scheduling coordinators. SWP sold supplemental energy (Ancillary Service) to the California ISO during the week of July 13-17 as high temperatures throughout the southwest caused higher than expected electrical loads.

Over the weekend of July 4, Lake Oroville was cleared of debris. Lake Oroville was held at levels that allowed Civil Maintenance to maximize their clean up efforts. Storage in the lake slowly decreased during the month.

On July 12, a test was conducted at Hyatt, Thermalito and Gianelli plants to determine the maximum generation capacity that could be brought on line in 10 minutes. The test indicated that 541 MW was available from the Hyatt/Thermalito complex and 265 MW at Gianelli.

On July 13, an herbicide application was done at Clifton Court Forebay to control pond weed growth. To provide the required herbicide contact time, the elevation of Clifton Court was maintained at -1.5 feet for 36 hours with limited pumping at Banks to supply South Bay contractors.

USBR temporarily decreased pumping at Tracy Pumping Plant due to water level concerns from a south Delta water user. Tracy pumping was decreased to 4 units on July 18. Pumping with all 5 units resumed on July 21 after investigation indicated the problem was most likely caused by local sedimentation and was not significantly impacted by project exports. Additionally, the USBR opened the Cross Channel Gates on July 17.

The spill at Antelope Lake and Frenchman Lake, which began in April, ended during July.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Outflow in cfs | | | | | | Computed Inflow 1/ | |
|----------------|--------------------------------------|---------|----------------|--------------------|-----------------------|-------------|-------|---|---------------------|-----------------------|--|
| | | | | Regulated Release | | | Spill | Estimated Evaporation And Seepage 1/ | Total Outflow 1/ | | |
| | | | | Stream-flow Maint. | Water Supply Contract | Water Right | | | | | |
| Jun 30 | 5002.51 | 23,041 | | | | | | | | | |
| 1 | 5002.48 | 23,012 | -29 | 20 | 0 | 0 | 45 | | | | |
| 2 | 5002.46 | 22,994 | -18 | 20 | 0 | 0 | 41 | | | | |
| 3 | 5002.45 | 22,984 | -10 | 20 | 0 | 0 | 40 | | | | |
| 4 | 5002.42 | 22,956 | -28 | 20 | 0 | 0 | 37 | | | | |
| 5 | 5002.40 | 22,937 | -19 | 20 | 0 | 0 | 33 | | | | |
| 6 | 5002.44 | 22,975 | 38 | 20 | 0 | 0 | 34 | | | | |
| 7 | 5002.43 | 22,965 | -10 | 20 | 0 | 0 | 37 | | | | |
| 8 | 5002.40 | 22,937 | -28 | 20 | 0 | 0 | 34 | | | | |
| 9 | 5002.35 | 22,890 | -47 | 20 | 0 | 0 | 29 | | | | |
| 10 | 5002.33 | 22,872 | -18 | 20 | 0 | 0 | 24 | | | | |
| 11 | 5002.31 | 22,853 | -19 | 20 | 0 | 0 | 22 | | | | |
| 12 | 5002.27 | 22,816 | -37 | 20 | 0 | 0 | 19 | | | | |
| 13 | 5002.25 | 22,797 | -19 | 20 | 0 | 0 | 16 | | | | |
| 14 | 5002.23 | 22,778 | -19 | 20 | 0 | 0 | 14 | | | | |
| 15 | 5002.22 | 22,769 | -9 | 20 | 0 | 0 | 13 | | | | |
| 16 | 5002.20 | 22,750 | -19 | 20 | 0 | 0 | 11 | | | | |
| 17 | 5002.18 | 22,732 | -18 | 20 | 0 | 0 | 10 | | | | |
| 18 | 5002.16 | 22,713 | -19 | 20 | 0 | 0 | 8 | | | | |
| 19 | 5002.13 | 22,685 | -28 | 20 | 0 | 0 | 7 | | | | |
| 20 | 5002.12 | 22,676 | -9 | 20 | 0 | 0 | 5 | | | | |
| 21 | 5002.09 | 22,648 | -28 | 20 | 0 | 0 | 4 | | | | |
| 22 | 5002.06 | 22,620 | -28 | 20 | 0 | 0 | 2 | | | | |
| 23 | 5002.05 | 22,611 | -9 | 20 | 0 | 0 | 2 | | | | |
| 24 | 5002.06 | 22,620 | 9 | 20 | 0 | 0 | 2 | | | | |
| 25 | 5002.05 | 22,611 | -9 | 20 | 0 | 0 | 2 | | | | |
| 26 | 5002.02 | 22,583 | -28 | 20 | 0 | 0 | 1 | | | | |
| 27 | 5002.01 | 22,573 | -10 | 20 | 0 | 0 | 0 | | | | |
| 28 | 5001.98 | 22,546 | -27 | 20 | 0 | 0 | 0 | | | | |
| 29 | 5001.95 | 22,518 | -28 | 20 | 0 | 0 | 0 | | | | |
| 30 | 5001.91 | 22,481 | -37 | 20 | 0 | 0 | 0 | | | | |
| 31 | 5001.88 | 22,453 | -28 | 20 | 0 | 0 | 0 | | | | |
| Total cfs-days | | | --- | 620 | 0 | 0 | 492 | 352 | 1,464 | 1,168 | |
| Total ac-ft | | | -588 | 1,230 | 0 | 0 | 976 | 698 | 2,904 | 2,316 | |

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Outflow in cfs | | | | | Computed Inflow 1/ | |
|----------------|-----------------------------------|---------|----------------|--------------------|-----------------------|-------------|-------|--------------------------------------|--------------------|--|
| | | | | Regulated Release | | | Spill | Estimated Evaporation And Seepage 1/ | | |
| | | | | Stream-flow Maint. | Water Supply Contract | Water Right | | | | |
| Jun 30 | 5588.33 | 56,000 | | | | | | | | |
| 1 | 5588.31 | 55,952 | -48 | 3 | 0 | 0 | 27 | | | |
| 2 | 5588.35 | 56,031 | 79 | 2 | 21 | 0 | 28 | | | |
| 3 | 5588.21 | 55,809 | -222 | 0 | 41 | 0 | 22 | | | |
| 4 | 5588.22 | 55,825 | 16 | 0 | 34 | 0 | 15 | | | |
| 5 | 5588.18 | 55,761 | -64 | 0 | 34 | 0 | 13 | | | |
| 6 | 5588.02 | 55,508 | -253 | 0 | 39 | 0 | 5 | | | |
| 7 | 5588.04 | 55,540 | 32 | 0 | 40 | 0 | 1 | | | |
| 8 | 5587.93 | 55,366 | -174 | 0 | 38 | 0 | 0 | | | |
| 9 | 5587.91 | 55,334 | -32 | 0 | 37 | 0 | 0 | | | |
| 10 | 5587.82 | 55,193 | -141 | 0 | 37 | 0 | 0 | | | |
| 11 | 5587.77 | 55,114 | -79 | 0 | 37 | 0 | 0 | | | |
| 12 | 5587.76 | 55,098 | -16 | 0 | 37 | 0 | 0 | | | |
| 13 | 5587.75 | 55,082 | -16 | 0 | 40 | 0 | 0 | | | |
| 14 | 5587.60 | 54,847 | -235 | 0 | 45 | 0 | 0 | | | |
| 15 | 5587.50 | 54,690 | -157 | 0 | 55 | 0 | 0 | | | |
| 16 | 5587.45 | 54,612 | -78 | 0 | 60 | 0 | 0 | | | |
| 17 | 5587.38 | 54,502 | -110 | 0 | 52 | 0 | 0 | | | |
| 18 | 5587.31 | 54,393 | -109 | 0 | 48 | 0 | 0 | | | |
| 19 | 5587.22 | 54,253 | -140 | 0 | 48 | 0 | 0 | | | |
| 20 | 5587.20 | 54,221 | -32 | 0 | 50 | 0 | 0 | | | |
| 21 | 5587.15 | 54,144 | -77 | 0 | 51 | 0 | 0 | | | |
| 22 | 5587.02 | 53,942 | -202 | 0 | 51 | 0 | 0 | | | |
| 23 | 5586.98 | 53,880 | -62 | 0 | 54 | 0 | 0 | | | |
| 24 | 5586.91 | 53,771 | -109 | 0 | 58 | 0 | 0 | | | |
| 25 | 5586.80 | 53,601 | -170 | 0 | 56 | 0 | 0 | | | |
| 26 | 5586.74 | 53,508 | -93 | 0 | 55 | 0 | 0 | | | |
| 27 | 5586.64 | 53,354 | -154 | 0 | 76 | 0 | 0 | | | |
| 28 | 5586.52 | 53,169 | -185 | 0 | 86 | 0 | 0 | | | |
| 29 | 5586.42 | 53,015 | -154 | 0 | 86 | 0 | 0 | | | |
| 30 | 5586.30 | 52,831 | -184 | 0 | 79 | 0 | 0 | | | |
| 31 | 5586.18 | 52,648 | -183 | 0 | 81 | 0 | 0 | | | |
| Total cfs-days | | | | --- | 5 | 1,526 | 0 | 111 | 591 | |
| Total ac-ft | | | | -3,352 | 10 | 3,027 | 0 | 220 | 1,173 | |
| | | | | | | | | | 4,430 | |
| | | | | | | | | | 1,078 | |

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Outflow in cfs | | | | | | Computed Inflow | |
|----------------|-----------------------------------|---------|----------------|--------------------|-----------------------|-------------|-------|--------------------------------------|------------------|-----------------|-------|
| | | | | Regulated Release | | | Spill | Estimated Evaporation And Seepage 1/ | Total Outflow 1/ | | |
| | | | | Stream-flow Maint. | Water Supply Contract | Water Right | | | | | |
| Jun 30 | 5772.37 | 74,142 | | | | | | | | | |
| 1 | 5772.34 | 74,029 | -113 | 22 | 0 | 1 | 0 | | | | |
| 2 | 5772.33 | 73,991 | -38 | 22 | 0 | 1 | 0 | | | | |
| 3 | 5772.31 | 73,916 | -75 | 22 | 0 | 1 | 0 | | | | |
| 4 | 5772.30 | 73,879 | -37 | 22 | 0 | 1 | 0 | | | | |
| 5 | 5772.27 | 73,766 | -113 | 21 | 0 | 1 | 0 | | | | |
| 6 | 5772.25 | 73,692 | -74 | 22 | 0 | 1 | 0 | | | | |
| 7 | 5772.23 | 73,617 | -75 | 8 | 0 | 1 | 0 | | | | |
| 8 | 5772.22 | 73,579 | -38 | 8 | 0 | 1 | 0 | | | | |
| 9 | 5772.20 | 73,504 | -75 | 22 | 0 | 1 | 0 | | | | |
| 10 | 5772.16 | 73,355 | -149 | 22 | 0 | 1 | 0 | | | | |
| 11 | 5772.12 | 73,205 | -150 | 21 | 0 | 2 | 0 | | | | |
| 12 | 5772.10 | 73,131 | -74 | 22 | 0 | 2 | 0 | | | | |
| 13 | 5772.08 | 73,056 | -75 | 22 | 0 | 1 | 0 | | | | |
| 14 | 5772.04 | 72,907 | -149 | 22 | 0 | 1 | 0 | | | | |
| 15 | 5772.01 | 72,795 | -112 | 22 | 0 | 1 | 0 | | | | |
| 16 | 5771.99 | 72,721 | -74 | 22 | 0 | 1 | 0 | | | | |
| 17 | 5771.97 | 72,647 | -74 | 22 | 0 | 1 | 0 | | | | |
| 18 | 5771.94 | 72,535 | -112 | 22 | 0 | 1 | 0 | | | | |
| 19 | 5771.91 | 72,424 | -111 | 22 | 0 | 1 | 0 | | | | |
| 20 | 5771.88 | 72,312 | -112 | 22 | 0 | 1 | 0 | | | | |
| 21 | 5771.85 | 72,201 | -111 | 22 | 0 | 1 | 0 | | | | |
| 22 | 5771.82 | 72,090 | -111 | 22 | 0 | 1 | 0 | | | | |
| 23 | 5771.79 | 71,979 | -111 | 22 | 0 | 1 | 0 | | | | |
| 24 | 5771.79 | 71,979 | 0 | 22 | 0 | 1 | 0 | | | | |
| 25 | 5771.75 | 71,831 | -148 | 22 | 0 | 1 | 0 | | | | |
| 26 | 5771.73 | 71,757 | -74 | 22 | 0 | 1 | 0 | | | | |
| 27 | 5771.70 | 71,647 | -110 | 22 | 0 | 1 | 0 | | | | |
| 28 | 5771.69 | 71,610 | -37 | 22 | 0 | 1 | 0 | | | | |
| 29 | 5771.64 | 71,425 | -185 | 22 | 0 | 1 | 0 | | | | |
| 30 | 5771.60 | 71,278 | -147 | 22 | 0 | 1 | 0 | | | | |
| 31 | 5771.56 | 71,131 | -147 | 22 | 0 | 1 | 0 | | | | |
| Total cfs-days | | | | --- | 652 | 0 | 33 | 0 | 1,403 | 2,088 | 570 |
| Total ac-ft | | | | -3,011 | 1,293 | 0 | 65 | 0 | 2,782 | 4,141 | 1,130 |

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Outflow | | | | | Inflow | |
|--------|-----------------------------------|-----------|----------------|--------------------------------|---------------|----------------|---------|---------------|---------------------------|--------------------|
| | | | | Hyatt Powerplant Generation 1/ | Palermo Canal | Evaporation 2/ | Spill | Total Outflow | Hyatt Powerplant Pumpback | Computed Inflow 3/ |
| Jun 30 | 898.60 | 3,515,500 | | | | | | | | |
| 1 | 898.23 | 3,509,682 | -5,818 | 23,992 | 36 | 217 | 0 | 24,245 | 0 | 18,427 |
| 2 | 897.79 | 3,502,772 | -6,910 | 22,274 | 36 | 420 | 0 | 22,730 | 0 | 15,820 |
| 3 | 897.38 | 3,496,342 | -6,430 | 23,227 | 36 | 286 | 0 | 23,549 | 0 | 17,119 |
| 4 | 897.01 | 3,490,546 | -5,796 | 18,186 | 36 | 276 | 0 | 18,498 | 0 | 12,702 |
| 5 | 896.93 | 3,489,294 | -1,252 | 16,082 | 36 | 362 | 0 | 16,480 | 0 | 15,228 |
| 6 | 896.62 | 3,484,445 | -4,849 | 18,107 | 36 | 390 | 0 | 18,533 | 0 | 13,684 |
| 7 | 896.17 | 3,477,415 | -7,030 | 21,217 | 36 | 362 | 0 | 21,615 | 0 | 14,585 |
| 8 | 895.99 | 3,474,605 | -2,810 | 16,066 | 36 | 427 | 0 | 16,529 | 0 | 13,719 |
| 9 | 895.86 | 3,472,577 | -2,028 | 15,340 | 36 | 408 | 0 | 15,784 | 0 | 13,756 |
| 10 | 895.52 | 3,467,277 | -5,300 | 17,235 | 36 | 322 | 0 | 17,593 | 0 | 12,293 |
| 11 | 895.69 | 3,469,926 | 2,649 | 9,386 | 36 | 294 | 0 | 9,716 | 0 | 12,365 |
| 12 | 895.48 | 3,466,654 | -3,272 | 13,355 | 36 | 341 | 0 | 13,732 | 0 | 10,460 |
| 13 | 895.35 | 3,464,629 | -2,025 | 12,720 | 36 | 398 | 0 | 13,154 | 0 | 11,129 |
| 14 | 895.03 | 3,459,649 | -4,980 | 15,912 | 36 | 369 | 0 | 16,317 | 0 | 11,337 |
| 15 | 894.43 | 3,450,325 | -9,324 | 20,094 | 38 | 464 | 0 | 20,596 | 0 | 11,272 |
| 16 | 893.83 | 3,441,019 | -9,306 | 19,412 | 40 | 490 | 0 | 19,942 | 0 | 10,636 |
| 17 | 893.27 | 3,432,350 | -8,669 | 18,142 | 40 | 452 | 0 | 18,634 | 0 | 9,965 |
| 18 | 893.21 | 3,431,422 | -928 | 10,946 | 40 | 460 | 0 | 11,446 | 0 | 10,518 |
| 19 | 893.17 | 3,430,803 | -619 | 10,347 | 40 | 516 | 0 | 10,903 | 0 | 10,284 |
| 20 | 892.81 | 3,425,240 | -5,563 | 14,537 | 40 | 450 | 0 | 15,027 | 0 | 9,464 |
| 21 | 892.31 | 3,417,524 | -7,716 | 16,927 | 40 | 394 | 0 | 17,361 | 0 | 9,645 |
| 22 | 891.76 | 3,409,051 | -8,473 | 17,244 | 40 | 346 | 0 | 17,630 | 0 | 9,157 |
| 23 | 891.36 | 3,402,898 | -6,153 | 17,132 | 40 | 94 | 0 | 17,266 | 0 | 11,113 |
| 24 | 890.77 | 3,393,837 | -9,061 | 17,155 | 40 | 326 | 0 | 17,521 | 0 | 8,460 |
| 25 | 890.52 | 3,390,003 | -3,834 | 14,112 | 40 | 308 | 0 | 14,460 | 0 | 10,626 |
| 26 | 890.16 | 3,384,487 | -5,516 | 15,075 | 40 | 457 | 0 | 15,572 | 0 | 10,056 |
| 27 | 889.45 | 3,373,628 | -10,859 | 19,143 | 40 | 447 | 0 | 19,630 | 0 | 8,771 |
| 28 | 888.86 | 3,364,622 | -9,006 | 17,055 | 40 | 426 | 0 | 17,521 | 0 | 8,515 |
| 29 | 888.28 | 3,355,787 | -8,835 | 15,746 | 40 | 380 | 0 | 16,166 | 0 | 7,331 |
| 30 | 887.59 | 3,345,297 | -10,490 | 18,328 | 40 | 314 | 0 | 18,682 | 0 | 8,192 |
| 31 | 887.27 | 3,340,440 | -4,857 | 15,002 | 40 | 277 | 0 | 15,319 | 0 | 10,462 |
| Total | | -175,060 | 519,496 | 1,182 | 11,473 | 0 | 532,151 | 0 | 357,091 | |

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast

3/ Does not include pumpback

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

July 1998

Capacity: 25,120 ac-ft

| Date | Storage 1/ | Storage Change | Inflow | | | Outflow | | | | | Losses (-) And Gains (+) |
|--------|---------------|-------------------|------------------------------------|------------------------------|--|--|-----------------|--------------------------------------|-------------------------------|---------------------------------|--------------------------------|
| | | | Lake Oroville Releases 2/ | Kelly Ridge Generation | Thermalito Pumping- Generating Plant Pumpback | Thermalito Pumping- Generating Plant Generation 3/ | Butte County | Thermalito Irrigation District | Releases To River 4/ | Hyatt Powerplant Pumpback | |
| Jun 30 | 21,681 | | | | | | | | | | |
| 1 | 22,342 | 661 | 23,992 | 452 | 0 | 23,893 | 0 | 13 | 1,240 | 0 | 1,363 |
| 2 | 21,721 | -621 | 22,274 | 484 | 0 | 22,545 | 0 | 13 | 1,244 | 0 | 423 |
| 3 | 22,093 | 372 | 23,227 | 494 | 0 | 22,418 | 0 | 13 | 1,246 | 0 | 328 |
| 4 | 23,164 | 1,071 | 18,186 | 514 | 0 | 16,815 | 0 | 13 | 1,248 | 0 | 447 |
| 5 | 22,716 | -448 | 16,082 | 502 | 0 | 16,084 | 0 | 13 | 1,248 | 0 | 313 |
| 6 | 22,153 | -563 | 18,107 | 502 | 0 | 18,213 | 0 | 13 | 1,240 | 0 | 294 |
| 7 | 22,131 | -22 | 21,217 | 504 | 0 | 20,789 | 0 | 13 | 1,238 | 0 | 297 |
| 8 | 22,016 | -115 | 16,066 | 506 | 0 | 15,743 | 0 | 13 | 1,238 | 0 | 307 |
| 9 | 22,071 | 55 | 15,340 | 506 | 0 | 15,532 | 0 | 13 | 1,244 | 0 | 998 |
| 10 | 22,946 | 875 | 17,235 | 504 | 0 | 16,517 | 0 | 13 | 1,252 | 0 | 918 |
| 11 | 22,849 | -97 | 9,386 | 502 | 0 | 9,368 | 0 | 13 | 1,264 | 0 | 660 |
| 12 | 22,526 | -323 | 13,355 | 504 | 0 | 13,633 | 0 | 13 | 1,242 | 0 | 706 |
| 13 | 22,950 | 424 | 12,720 | 504 | 0 | 11,681 | 0 | 13 | 1,242 | 0 | 136 |
| 14 | 22,163 | -787 | 15,912 | 494 | 0 | 16,136 | 0 | 13 | 1,242 | 0 | 198 |
| 15 | 22,223 | 60 | 20,094 | 389 | 0 | 19,517 | 0 | 13 | 1,232 | 0 | 339 |
| 16 | 22,155 | -68 | 19,412 | 504 | 0 | 19,649 | 0 | 13 | 1,232 | 0 | 910 |
| 17 | 22,572 | 417 | 18,142 | 500 | 0 | 17,223 | 0 | 13 | 1,230 | 0 | 241 |
| 18 | 22,560 | -12 | 10,946 | 514 | 0 | 10,476 | 0 | 13 | 1,228 | 0 | 245 |
| 19 | 23,124 | 564 | 10,347 | 508 | 0 | 9,197 | 0 | 13 | 1,228 | 0 | 147 |
| 20 | 22,480 | -644 | 14,537 | 504 | 0 | 14,588 | 0 | 13 | 1,234 | 0 | 150 |
| 21 | 22,434 | -46 | 16,927 | 508 | 0 | 16,546 | 0 | 13 | 1,244 | 0 | 322 |
| 22 | 22,299 | -135 | 17,244 | 502 | 0 | 16,891 | 0 | 14 | 1,236 | 0 | 260 |
| 23 | 22,507 | 208 | 17,132 | 532 | 0 | 16,420 | 0 | 14 | 1,224 | 0 | 202 |
| 24 | 23,549 | 1,042 | 17,155 | 472 | 0 | 15,600 | 0 | 14 | 1,234 | 0 | 263 |
| 25 | 23,235 | -314 | 14,112 | 504 | 0 | 13,916 | 0 | 14 | 1,228 | 0 | 228 |
| 26 | 23,139 | -96 | 15,075 | 458 | 0 | 14,703 | 0 | 14 | 1,238 | 0 | 326 |
| 27 | 22,039 | -1,100 | 19,143 | 502 | 0 | 19,065 | 0 | 14 | 1,220 | 0 | -446 |
| 28 | 23,614 | 1,575 | 17,055 | 415 | 0 | 15,510 | 0 | 14 | 1,236 | 0 | 865 |
| 29 | 23,560 | -54 | 15,746 | 502 | 0 | 15,297 | 0 | 14 | 1,294 | 0 | 303 |
| 30 | 23,583 | 23 | 18,328 | 502 | 0 | 17,821 | 0 | 14 | 1,240 | 0 | 268 |
| 31 | 23,255 | -328 | 15,002 | 506 | 0 | 14,848 | 1 | 14 | 1,234 | 0 | 261 |
| Total | | 1,574 | 519,496 | 15,294 | 0 | 506,634 | 1 | 413 | 38,440 | 0 | 12,272 |

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Inflow | | Outflow | | | | | Losses (-) and Gains (+) | Total Releases to River 2/ | |
|--------|-----------------------------------|---------|----------------|---|--------------------|-----------------------|----------------|---------------|-----------------------|--|--------------------------|----------------------------|--|
| | | | | Thermalito Pumping-Generating Plant Generation 1/ | Sutter Butte Canal | Western Canal Lateral | Richvale Canal | Western Canal | Afterbay River Outlet | Thermalito Pumping-Generating Plant Pumpback | | | |
| Jun 30 | 132.22 | 39,925 | | | | | | | | | | | |
| 1 | 132.88 | 42,387 | 2,462 | 23,893 | 2,936 | 40 | 694 | 1,710 | 14,718 | 0 | -1,333 | 15,958 | |
| 2 | 133.44 | 44,529 | 2,142 | 22,545 | 2,916 | 40 | 734 | 1,658 | 14,718 | 0 | -337 | 15,962 | |
| 3 | 133.95 | 46,523 | 1,994 | 22,418 | 2,936 | 38 | 752 | 1,632 | 14,737 | 0 | -329 | 15,983 | |
| 4 | 133.09 | 43,185 | -3,338 | 16,815 | 2,936 | 34 | 748 | 1,630 | 14,718 | 0 | -87 | 15,966 | |
| 5 | 131.98 | 39,047 | -4,138 | 16,084 | 2,936 | 32 | 752 | 1,632 | 14,718 | 0 | -152 | 15,966 | |
| 6 | 131.66 | 37,890 | -1,157 | 18,213 | 2,955 | 30 | 750 | 1,632 | 13,746 | 0 | -257 | 14,986 | |
| 7 | 132.52 | 41,036 | 3,146 | 20,789 | 3,015 | 32 | 752 | 1,688 | 11,722 | 0 | -434 | 12,960 | |
| 8 | 132.10 | 39,485 | -1,551 | 15,743 | 3,015 | 34 | 750 | 1,732 | 11,742 | 0 | -21 | 12,980 | |
| 9 | 131.32 | 36,679 | -2,806 | 15,532 | 3,015 | 30 | 772 | 1,761 | 11,722 | 0 | -1,038 | 12,966 | |
| 10 | 130.96 | 35,416 | -1,263 | 16,517 | 2,995 | 26 | 780 | 1,779 | 11,227 | 0 | -973 | 12,479 | |
| 11 | 129.19 | 29,513 | -5,903 | 9,368 | 2,975 | 26 | 780 | 1,779 | 9,223 | 0 | -488 | 10,487 | |
| 12 | 128.71 | 28,000 | -1,513 | 13,633 | 2,936 | 26 | 780 | 1,779 | 8,708 | 0 | -917 | 9,950 | |
| 13 | 127.79 | 25,205 | -2,795 | 11,681 | 2,916 | 28 | 780 | 1,781 | 8,727 | 0 | -244 | 9,969 | |
| 14 | 128.34 | 26,859 | 1,654 | 16,136 | 3,015 | 32 | 780 | 1,779 | 8,727 | 0 | -149 | 9,969 | |
| 15 | 129.81 | 31,523 | 4,664 | 19,517 | 3,035 | 30 | 780 | 1,801 | 8,708 | 0 | -499 | 9,940 | |
| 16 | 131.11 | 35,940 | 4,417 | 19,649 | 3,055 | 28 | 780 | 1,831 | 8,727 | 0 | -811 | 9,959 | |
| 17 | 131.76 | 38,250 | 2,310 | 17,223 | 3,074 | 28 | 781 | 1,864 | 8,708 | 0 | -458 | 9,938 | |
| 18 | 130.60 | 34,175 | -4,075 | 10,476 | 3,094 | 28 | 780 | 1,910 | 8,708 | 0 | -31 | 9,936 | |
| 19 | 128.94 | 28,720 | -5,455 | 9,197 | 3,074 | 30 | 778 | 1,928 | 8,708 | 0 | -134 | 9,936 | |
| 20 | 128.84 | 28,406 | -314 | 14,588 | 3,074 | 32 | 780 | 1,930 | 8,727 | 0 | -359 | 9,961 | |
| 21 | 129.39 | 30,154 | 1,748 | 16,546 | 3,074 | 34 | 780 | 1,930 | 8,727 | 0 | -253 | 9,971 | |
| 22 | 129.96 | 32,019 | 1,865 | 16,891 | 3,074 | 34 | 781 | 1,930 | 8,727 | 0 | -480 | 9,963 | |
| 23 | 130.40 | 33,494 | 1,475 | 16,420 | 3,074 | 34 | 781 | 1,930 | 8,727 | 0 | -399 | 9,951 | |
| 24 | 130.68 | 34,449 | 955 | 15,600 | 3,094 | 34 | 780 | 1,896 | 8,727 | 0 | -114 | 9,961 | |
| 25 | 130.45 | 33,663 | -786 | 13,916 | 3,074 | 32 | 780 | 1,839 | 8,727 | 0 | -250 | 9,955 | |
| 26 | 130.46 | 33,697 | 34 | 14,703 | 3,035 | 30 | 780 | 1,785 | 8,708 | 0 | -331 | 9,946 | |
| 27 | 131.71 | 38,070 | 4,373 | 19,065 | 3,015 | 30 | 780 | 1,771 | 8,727 | 0 | -369 | 9,947 | |
| 28 | 131.97 | 39,011 | 941 | 15,510 | 3,035 | 30 | 780 | 1,755 | 8,727 | 0 | -242 | 9,963 | |
| 29 | 132.20 | 39,852 | 841 | 15,297 | 3,055 | 30 | 780 | 1,742 | 8,727 | 0 | -122 | 10,021 | |
| 30 | 133.00 | 42,842 | 2,990 | 17,821 | 3,055 | 30 | 780 | 1,730 | 8,727 | 0 | -509 | 9,967 | |
| 31 | 133.08 | 43,147 | 305 | 14,848 | 3,035 | 30 | 780 | 1,722 | 8,727 | 0 | -249 | 9,961 | |
| Total | | | 3,222 | 506,634 | 93,523 | 972 | 23,865 | 55,266 | 317,417 | 0 | -12,369 | 355,857 | |

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

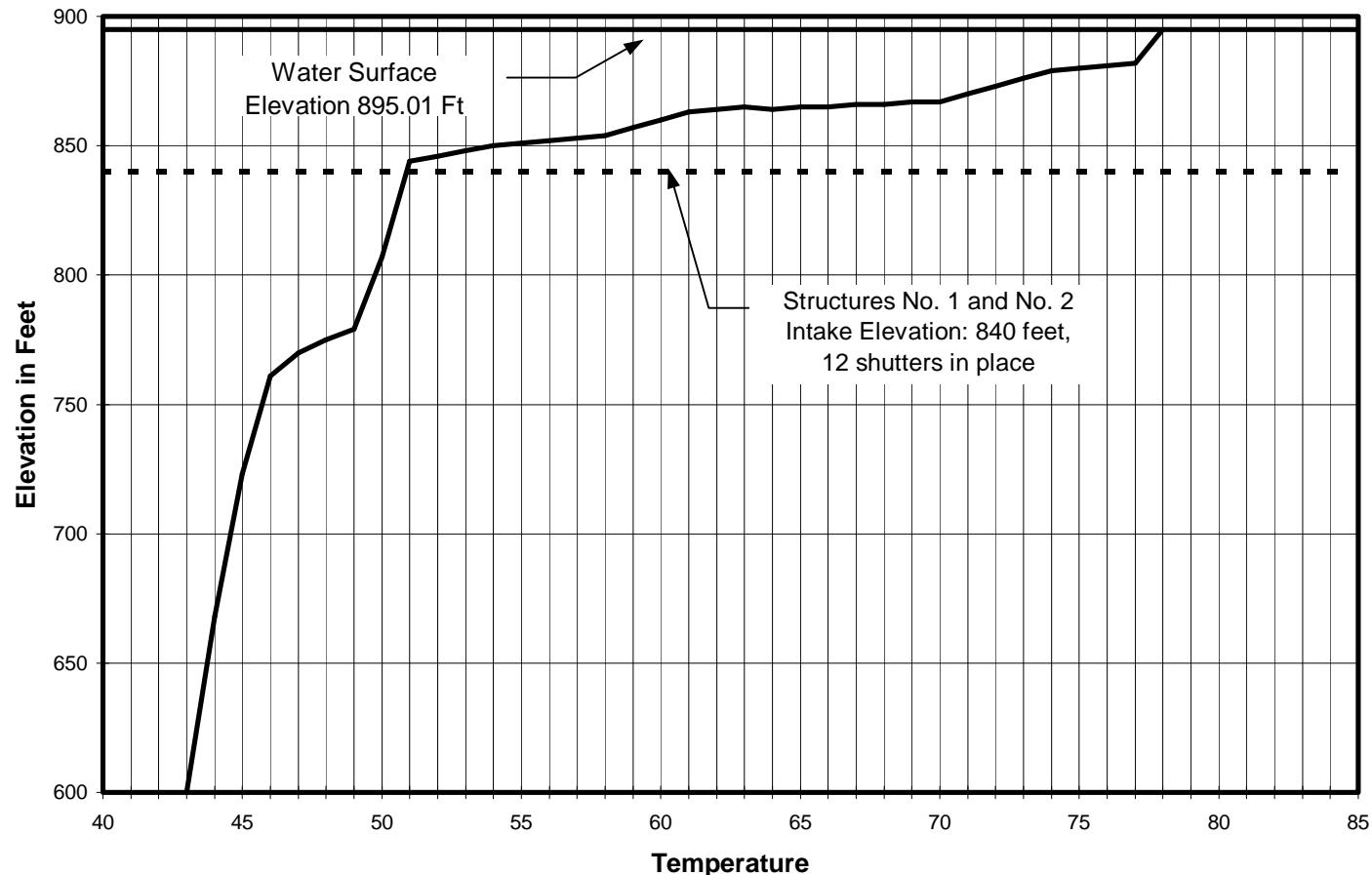
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

July 1998

| Date | Mean Daily Temperature | |
|------|----------------------------------|------------------|
| | Thermalito Afterbay Outlet | Fish Hatchery |
| 1 | 59 | 57 |
| 2 | 60 | 58 |
| 3 | 61 | 58 |
| 4 | 62 | 58 |
| 5 | 63 | 58 |
| 6 | 63 | 58 |
| 7 | 64 | 59 |
| 8 | 63 | 58 |
| 9 | 63 | 57 |
| 10 | 63 | 56 |
| 11 | 64 | 57 |
| 12 | 65 | 57 |
| 13 | 65 | 58 |
| 14 | 65 | 57 |
| 15 | 65 | 58 |
| 16 | 64 | 59 |
| 17 | 65 | 59 |
| 18 | 66 | 59 |
| 19 | 67 | 58 |
| 20 | 67 | 58 |
| 21 | 66 | 59 |
| 22 | 64 | 60 |
| 23 | 63 | 60 |
| 24 | 64 | 60 |
| 25 | 65 | 61 |
| 26 | 66 | 60 |
| 27 | 67 | 61 |
| 28 | 66 | 61 |
| 29 | 65 | 57 |
| 30 | 65 | 57 |
| 31 | 66 | 57 |

**Lake Oroville Temperature Profile
on July 15, 1998**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. Aqueduct Operation
Delta Field Division
(in acre-feet except as noted)

December 1998

| <u>North Bay Aqueduct</u> | |
|---|---------|
| Pumped at Barker Slough Pumping Plant | 2,820 |
| Travis Turnout | 121 |
| Fairfield/Vacaville Turnout | 0 |
| Pumped at Cordelia Pumping Plant | 2,610 |
| Cordelia Pumping Plant Spillway | 0 |
| Computed Losses (-) or Gains (+) | -89 |
| Benicia Turnout | 961 |
| Vallejo Turnout | 774 |
| American Canyon 1 | 109 |
| American Canyon 2 | 0 |
| Napa City Turnout | 766 |
| Total Deliveries (After Cordelia) | 2,610 |
| Change in Storage at Napa Terminal Tank | 0 |
| <u>California Aqueduct</u> | |
| Amount Pumped at Banks Pumping Plan | 128,026 |
| Amount Pumped at South Bay Pumping Plant | 7,126 |
| Deliveries From California Aqueduct (Oak Flat Water District, Tracy Golf, Veterans Cemetery, and Musco Oliv | 69 |
| Inflow into California Aqueduct | 0 |
| Change in Storage | -298 |
| Flow Past Check 12 | 120,050 |
| Computed Losses (-) or Gains (+) | -1,079 |

Table 9. Delta Field Division Plant Data

(in acre-feet)

July 1998

| Date | North Bay Aqueduct | | California Aqueduct | | South Bay Aqueduct | | | |
|-------|-----------------------------|------------------------|---------------------|---------|-------------------------|-------------------------|---------------|--|
| | Barker Slough Pumping Plant | Cordelia Pumping Plant | Banks Pumping Plant | | South Bay Pumping Plant | Del Valle Pumping Plant | | |
| | | | Total | SWP | | Into Lake | Into Aqueduct | Gravity Flow Through Plant Into Aqueduct |
| 1 | 164 | 65 | 7,724 | 7,724 | 462 | 0 | 0 | 0 |
| 2 | 164 | 77 | 8,385 | 8,385 | 458 | 0 | 0 | 0 |
| 3 | 168 | 75 | 7,623 | 7,623 | 443 | 0 | 0 | 0 |
| 4 | 175 | 80 | 6,699 | 6,699 | 429 | 0 | 0 | 0 |
| 5 | 162 | 69 | 5,542 | 5,542 | 433 | 0 | 0 | 0 |
| 6 | 171 | 72 | 4,707 | 4,707 | 440 | 0 | 0 | 0 |
| 7 | 170 | 72 | 3,109 | 3,109 | 477 | 0 | 0 | 0 |
| 8 | 181 | 82 | 1,457 | 1,457 | 497 | 0 | 0 | 0 |
| 9 | 180 | 81 | 4,443 | 4,443 | 509 | 0 | 0 | 0 |
| 10 | 163 | 65 | 8,290 | 8,290 | 488 | 0 | 0 | 0 |
| 11 | 169 | 69 | 8,423 | 8,423 | 469 | 0 | 0 | 0 |
| 12 | 180 | 74 | 6,763 | 6,763 | 447 | 0 | 0 | 0 |
| 13 | 201 | 87 | 1,095 | 1,095 | 456 | 0 | 0 | 0 |
| 14 | 190 | 84 | 1,087 | 1,087 | 432 | 0 | 0 | 13 |
| 15 | 174 | 75 | 6,706 | 6,706 | 432 | 0 | 0 | 35 |
| 16 | 202 | 90 | 7,997 | 7,997 | 445 | 0 | 0 | 66 |
| 17 | 209 | 92 | 8,270 | 8,270 | 447 | 0 | 0 | 79 |
| 18 | 194 | 85 | 8,129 | 8,129 | 443 | 0 | 0 | 51 |
| 19 | 218 | 104 | 8,882 | 8,882 | 437 | 0 | 0 | 84 |
| 20 | 170 | 69 | 9,134 | 9,134 | 440 | 0 | 0 | 59 |
| 21 | 208 | 97 | 9,500 | 9,500 | 446 | 0 | 0 | 49 |
| 22 | 191 | 83 | 7,000 | 7,000 | 447 | 0 | 0 | 51 |
| 23 | 206 | 101 | 7,491 | 7,491 | 447 | 0 | 0 | 43 |
| 24 | 184 | 76 | 7,529 | 7,529 | 459 | 0 | 0 | 47 |
| 25 | 189 | 84 | 7,547 | 7,547 | 447 | 0 | 0 | 47 |
| 26 | 197 | 86 | 12,926 | 12,926 | 447 | 0 | 0 | 54 |
| 27 | 204 | 90 | 7,426 | 7,426 | 447 | 0 | 0 | 60 |
| 28 | 189 | 84 | 7,416 | 7,416 | 447 | 0 | 0 | 54 |
| 29 | 162 | 72 | 6,932 | 6,932 | 444 | 0 | 0 | 77 |
| 30 | 191 | 86 | 7,719 | 7,719 | 435 | 0 | 0 | 66 |
| 31 | 164 | 67 | 7,450 | 7,450 | 438 | 0 | 0 | 79 |
| Total | 5,690 | 2,493 | 213,401 | 213,401 | 13,988 | 0 | 0 | 1,020 |

Table 10. Clifton Court Forebay

Daily Operation of Gates

July 1998

| Date | Time Opened | Time Closed | Amount of inflow in Acre-Feet | Date | Time Opened | Time Closed | Amount of inflow in Acre-Feet |
|------|-------------|-------------|-------------------------------|------|-------------|-------------|-------------------------------|
| 1 | 01:40 | 14:35 | 7,471 | 17 | 02:04 | 08:00 | |
| 2 | 02:21 | 08:24 | | | 11:00 | 17:10 | |
| | 11:30 | 16:15 | | | 22:20 | 23:31 | 10,161 |
| | 22:18 | 23:37 | 8,721 | 18 | 00:12 | 09:04 | |
| 3 | 03:01 | 09:21 | | | 12:08 | 18:00 | 8,662 |
| | 12:21 | 17:57 | | 19 | 02:49 | 09:20 | |
| | 23:11 | - - - | 7,927 | | 13:30 | 20:10 | |
| 4 | - - - | 00:30 | | | 23:25 | - - - | 9,277 |
| | 03:39 | 10:10 | | 20 | - - - | 01:39 | |
| | 13:38 | 17:20 | 6,937 | | 06:34 | 11:00 | |
| 5 | 00:15 | 01:24 | | | 14:10 | 20:03 | 8,906 |
| | 04:18 | 09:45 | | 21 | 00:55 | 02:36 | |
| | 14:35 | 18:34 | | | 05:25 | 11:48 | |
| | 23:30 | - - - | 6,545 | | 16:00 | 20:00 | 9,521 |
| 6 | - - - | 02:13 | | 22 | 00:14 | 03:35 | |
| | 04:57 | 10:18 | | | 06:14 | 11:30 | |
| | 16:08 | 21:03 | 6,942 | | 18:45 | 20:45 | 7,125 |
| 7 | 01:45 | 02:38 | | 23 | 00:08 | 01:24 | |
| | 05:37 | 09:35 | | | 07:00 | 13:05 | |
| | 18:10 | 20:47 | 4,035 | | 18:20 | 20:20 | 7,132 |
| 8 | 07:30 | 08:30 | 294 | 24 | 00:11 | 05:12 | |
| 9 | 07:00 | 10:30 | 1,973 | | 07:44 | 13:55 | |
| 10 | 00:26 | 05:04 | | 25 | 18:15 | 19:25 | 7,893 |
| | 09:16 | 13:55 | | | 00:10 | 06:00 | |
| | 23:00 | - - - | 6,738 | | 08:20 | 13:35 | 7,934 |
| 11 | - - - | 05:48 | | 26 | 00:02 | 06:46 | |
| | 08:16 | 10:35 | 6,724 | | 09:09 | 15:13 | |
| | | | | | 18:13 | 23:15 | 12,889 |
| 12 | 00:01 | 06:00 | | 27 | 00:10 | 10:05 | 7,919 |
| | 09:33 | 11:00 | 5,940 | | | | |
| 13 | - - - | - - - | 0 | 28 | 00:12 | 13:02 | 7,932 |
| | | | | 29 | 00:01 | 13:48 | 7,577 |
| 14 | 14:30 | 19:10 | 1,578 | 30 | 00:34 | 05:48 | |
| | | | | | 09:35 | 14:36 | |
| 15 | 00:21 | 10:00 | | | 20:50 | 21:55 | 7,538 |
| | 13:30 | 17:33 | | 31 | 01:13 | 07:16 | |
| | 20:33 | 21:33 | 9,915 | | 10:26 | 15:46 | |
| 16 | 01:09 | 13:20 | 9,903 | | 21:20 | 22:47 | 7,702 |

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | Turnout | Total Diversions | Deliveries | | | | | |
|-----------|-------------------------|--------------|------------------------------|------------------|--------------|------|-------|------------|---------------------|--|
| | Beginning and Ending | | | | Entitle-ment | USBR | Misc. | Loan Water | 1997 Carryover Ent. | |
| | No. | Structure | Mile | | | | | | | |
| 1 | Banks Pumping Plant | 3.32 | | 213,401 | 33 | 33 | 0 | 0 | 0 | |
| | South Bay Pumping Plant | 4.49 | Bethany Reservoir Inlet | 13,988 | | | | | | |
| | Check No. 1 | 5.95 | | | | | | | | |
| | Check No. 2 | 12.01 | | | | | | | | |
| | 3 | 12.47 | Musco Olive | 33 | | | | | | |
| | Check No. 3 | 18.29 | | | | | | | | |
| | 4 | 22.16 | Tracy Golf & Country Club | 0 | | | | | | |
| | Check No. 4 | 23.99 | | | | | | | | |
| | 5 | Check No. 5 | 29.73 | | | | | | | |
| | 6 | Check No. 6 | 34.24 | | | | | | | |
| | 7 | 35.22 | Turlock Fruit Company Inflow | 0 | | | | | | |
| | Check No. 7 | 39.91 | | | | | | | | |
| 2A | 8 | 42.46 | Oak Flat Water District-A | 115 | 115 | 532 | 172 | 305 | 0 | |
| | | 43.81 | Oak Flat Water District-B | 532 | | | | | | |
| | | 44.64 | Oak Flat Water District-C | 172 | | | | | | |
| | | Check No. 8 | 45.97 | | | | | | | |
| | 9 | 46.18 | Oak Flat Water District-D | 305 | 1,124 | 0 | 0 | 0 | 0 | |
| 2B | | | Oak Flat Totals: | 1,124 | | | | | | |
| | Check No. 9 | 51.30 | | | 5 | 5 | 0 | 0 | 0 | |
| | 10 | Check No. 10 | 56.86 | | | | | | | |
| | 11 | Check No. 11 | 61.40 | | | | | | | |
| | 12 | 66.14 | Veteran's Cemetery | 5 | | | | | | |
| | | 66.71 | | 194,247 | | | | | | |

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diversions | Deliveries | | | | | |
|-----------|----------------------|--|-------|--------------------------------------|------------------|-------------|----------------------|-------|------------|--|--|
| | Beginning and Ending | | | | | Entitlement | Ext. M & I Cry. Ovr. | Local | Recreation | | |
| | No. | Structure | Mile | | | | | | | | |
| 1 | 1 | South Bay Pumping Plant | 0.00 | (into South Bay Aqueduct) | 13,988 | | 10 | 26 | 1,004 | | |
| | | | 3.17 | Granite - Vasco Rd. (Temp.) | 0 | | | | | | |
| | | | 3.18 | Oakland Scavenger Zone 7 | 10 | | | | | | |
| | | Check No. 1 | 3.91 | | | | | | | | |
| | 2 | Check No. 2 | 5.21 | | | | | | | | |
| 2 | 3 | | 7.21 | Zone 7 Altamont | 26 | | 250 | 251 | 591 | | |
| | | Check No. 3 | 9.49 | Zone 7 Patterson Stored Exchange | 1,004 | | | | | | |
| | | | | Zone 7 Patterson Project Water | 0 | | | | | | |
| | 4 | Check No. 4 | 10.68 | | | | 84 | 13 | 11 | | |
| | 5 | Check No. 5 | 12.29 | | | | | | | | |
| 4 | 6 | | 13.55 | Zone 7 Wente #1 | 250 | | | | | | |
| | | | 14.16 | Zone 7 Wente #2 | 251 | | | | | | |
| | | Check No. 6 | 14.65 | | | | | | | | |
| | | | 14.78 | Zone 7 Arroyo Mocho | 591 | | | | | | |
| | | Check No. 7 | 16.38 | | | | | | | | |
| | | | 16.57 | Zone 7 Wente #3 | 84 | | | | | | |
| | 7 | | 16.69 | Zone 7 Norman Nursery | 13 | | | | | | |
| | | | 16.70 | Zone 7 Concannon Stored Exchange | 11 | | | | | | |
| | | Del Valle Branch Pipeline Junction | 18.63 | (Flow into Lake Del Valle) | 0 | | | | | | |
| | | | | (Flow into South bay Aqueduct) | 1,020 | | | | | | |
| | | | | Arroyo Valle #1 & #2 Inflow Released | 0 | | 309 | 24 | 129 | | |
| 5 | 8 | Deliveries through Del Valle Branch Pipeline | | Arroyo Valle #1 & #2 Stored Exchange | 309 | | | | | | |
| | | | | Lake Del Valle Recreation | 24 | | | | | | |
| | | | | Zone 7 Wente #5 | 129 | | | | | | |
| | | | 19.20 | So. Livermore Project | 0 | | 214 | 1,020 | 1,371 | | |
| | | | 19.21 | So. Livermore Stored Released | 1,020 | | | | | | |
| 6 | | | | So. Livermore Stored Exchanged | 1,371 | | | | | | |
| | | | | Zone 7 - Kalthrof Detjens | 19 | | | | | | |
| 7 | La Costa Tunnel | | 22.50 | ACWD Vallecitos | 0 | | | | | | |
| | | | 25.97 | City of San Francisco San Antonio | 0 | | | | | | |
| | | | | ACWD - Bayside 1 & 2 Project Water: | 1,911 | 1,911 | 767 | 767 | 7,018 | | |
| 8 | Mission Tunnel | | 28.97 | Inflow Released | 0 | | | | | | |
| | | | | Stored Exchange: | 767 | | | | | | |
| 9 | Santa Clara Pipeline | 35.86 | | S.C.V.W.D. Meter | 7,018 | 7,018 | | | | | |

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

July 1998

Capacity: 77,106 ac-ft

| Date | Water Surface Elevation (feet) | Storage | Storage Change | Inflow | | Outflow | | | | | Precipitation (inches) |
|--------|--------------------------------|---------|----------------|------------------|-------------------------|--------------|--------------------|--------------------------|-------------|---------------|------------------------|
| | | | | Natural 1/ 3/ | From South Bay Aqueduct | Arroyo Valle | South Bay Aqueduct | Recreation Deliveries 2/ | Evaporation | Total Outflow | |
| Jun 30 | 703.33 | 40,148 | | | | | | | | | |
| 1 | 703.32 | 40,141 | -7 | | 0 | 0 | 0 | 0 | 11 | 11 | 0.00 |
| 2 | 703.31 | 40,134 | -7 | | 0 | 0 | 0 | 0 | 10 | 10 | 0.00 |
| 3 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 0 | 12 | 12 | 0.00 |
| 4 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 0 | 12 | 12 | 0.00 |
| 5 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 0 | 11 | 11 | 0.00 |
| 6 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 0 | 15 | 15 | 0.00 |
| 7 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 0 | 18 | 18 | 0.00 |
| 8 | 703.31 | 40,134 | 0 | | 0 | 0 | 0 | 1 | 12 | 13 | 0.00 |
| 9 | 703.30 | 40,127 | -7 | | 0 | 0 | 0 | 1 | 13 | 14 | 0.00 |
| 10 | 703.29 | 40,120 | -7 | | 0 | 0 | 0 | 1 | 9 | 10 | 0.00 |
| 11 | 703.27 | 40,106 | -14 | | 0 | 0 | 0 | 1 | 13 | 14 | 0.00 |
| 12 | 703.26 | 40,098 | -8 | | 0 | 0 | 0 | 1 | 15 | 16 | 0.00 |
| 13 | 703.24 | 40,084 | -14 | | 0 | 0 | 0 | 1 | 21 | 22 | 0.00 |
| 14 | 703.22 | 40,070 | -14 | | 0 | 0 | 13 | 1 | 14 | 28 | 0.00 |
| 15 | 703.17 | 40,035 | -35 | | 0 | 0 | 35 | 1 | 22 | 58 | 0.00 |
| 16 | 703.06 | 39,957 | -78 | | 0 | 0 | 66 | 1 | 18 | 86 | 0.00 |
| 17 | 702.93 | 39,865 | -92 | | 0 | 0 | 79 | 1 | 13 | 93 | 0.00 |
| 18 | 702.80 | 39,773 | -92 | | 0 | 0 | 51 | 1 | 20 | 72 | 0.00 |
| 19 | 702.68 | 39,688 | -85 | | 0 | 0 | 84 | 1 | 19 | 104 | 0.00 |
| 20 | 702.67 | 39,681 | -7 | | 0 | 0 | 59 | 1 | 16 | 76 | 0.00 |
| 21 | 702.59 | 39,625 | -56 | | 0 | 0 | 49 | 1 | 9 | 60 | 0.00 |
| 22 | 702.51 | 39,569 | -56 | | 0 | 0 | 51 | 1 | 13 | 66 | 0.00 |
| 23 | 702.44 | 39,519 | -50 | | 0 | 0 | 43 | 1 | 14 | 58 | 0.00 |
| 24 | 702.36 | 39,463 | -56 | | 0 | 0 | 47 | 1 | 15 | 63 | 0.00 |
| 25 | 702.28 | 39,407 | -56 | | 0 | 0 | 47 | 1 | 15 | 63 | 0.00 |
| 26 | 702.20 | 39,351 | -56 | | 0 | 0 | 54 | 1 | 15 | 70 | 0.00 |
| 27 | 702.10 | 39,281 | -70 | | 0 | 0 | 60 | 1 | 17 | 79 | 0.00 |
| 28 | 701.97 | 39,190 | -91 | | 0 | 0 | 54 | 1 | 11 | 66 | 0.00 |
| 29 | 701.84 | 39,099 | -91 | | 0 | 0 | 77 | 1 | 11 | 90 | 0.00 |
| 30 | 701.71 | 39,008 | -91 | | 0 | 0 | 66 | 1 | 13 | 80 | 0.00 |
| 31 | 701.57 | 38,911 | -97 | | 0 | 0 | 79 | 1 | 0 | 80 | 0.00 |
| Total | | -1,237 | 234 | 0 | 0 | 1,020 | 24 | 427 | 1,471 | 0.00 | |

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

3/ Not available on a daily basis.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

July 1998

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 56,430 Acre-feet

| Date | Water Surface Elev. (in feet) | Storage (ac-ft) | Storage Change (ac-ft) | Inflow (cfs) | | | | Outflow (cfs) | | | | Computed Losses (-) Gains (+) (cfs) |
|----------|----------------------------------|--------------------|---------------------------|---------------|--|---|---------------------|--|---|--------------------------|------------------|---|
| | | | | Pump In 1/ | O'Neill Pumping Generating Plant (Pumped) | Gianelli Pumping Generating Plant (Generation) | California Aqueduct | O'Neill Pumping Generating Plant (Generation) | Gianelli Pumping Generating Plant (Pumped) | Dos Amigos Pumping Plant | Deliveries 2/ | |
| Jun 30 | 221.55 | 47,204 | | | | | | | | | | |
| 1 | 221.72 | 47,651 | 447 | 2 | 3,056 | 1,312 | 3,613 | 0 | 0 | 7,590 | 55 | -113 |
| 2 | 222.08 | 48,597 | 946 | 2 | 2,859 | 1,312 | 3,941 | 0 | 0 | 7,404 | 61 | -172 |
| 3 | 222.24 | 49,022 | 425 | 1 | 2,814 | 1,312 | 3,577 | 0 | 0 | 7,565 | 59 | 134 |
| 4 | 223.02 | 51,100 | 2,078 | 1 | 2,623 | 3,150 | 3,251 | 0 | 0 | 8,016 | 47 | 86 |
| 5 | 222.14 | 48,756 | -2,344 | 1 | 2,576 | 527 | 2,503 | 0 | 0 | 6,705 | 56 | -28 |
| 6 | 223.25 | 51,714 | 2,958 | 1 | 2,672 | 3,153 | 2,230 | 0 | 0 | 6,586 | 56 | 77 |
| 7 | 223.69 | 52,893 | 1,179 | 1 | 2,686 | 4,390 | 1,443 | 0 | 148 | 7,854 | 56 | 132 |
| 8 | 221.71 | 47,625 | -5,268 | 1 | 2,510 | 3,105 | 156 | 0 | 738 | 7,915 | 43 | 268 |
| 9 | 220.49 | 44,427 | -3,198 | 1 | 2,283 | 3,075 | 1,875 | 0 | 292 | 8,729 | 36 | 211 |
| 10 | 220.58 | 44,661 | 234 | 0 | 2,377 | 3,075 | 3,868 | 0 | 513 | 8,787 | 36 | 134 |
| 11 | 221.95 | 48,255 | 3,594 | 0 | 2,727 | 3,246 | 3,754 | 0 | 0 | 7,794 | 40 | -81 |
| 12 | 222.01 | 48,411 | 156 | 0 | 2,824 | 1,949 | 3,289 | 0 | 369 | 7,403 | 27 | -184 |
| 13 | 222.12 | 48,703 | 292 | 0 | 3,010 | 5,108 | 451 | 0 | 645 | 7,669 | 27 | -81 |
| 14 | 222.03 | 48,464 | -239 | 0 | 3,091 | 5,698 | 63 | 0 | 445 | 8,508 | 30 | 11 |
| 15 | 221.72 | 47,651 | -813 | 0 | 3,075 | 2,084 | 2,802 | 0 | 443 | 7,932 | 30 | 34 |
| 16 | 222.46 | 49,607 | 1,956 | 0 | 2,904 | 2,607 | 3,771 | 0 | 0 | 8,375 | 44 | 123 |
| 17 | 221.85 | 47,992 | -1,615 | 0 | 2,901 | 1,473 | 3,860 | 0 | 443 | 8,618 | 48 | 61 |
| 18 | 221.88 | 48,071 | 79 | 0 | 2,546 | 2,336 | 3,893 | 0 | 0 | 8,783 | 62 | 110 |
| 19 | 220.47 | 44,374 | -3,697 | 0 | 2,145 | 1,487 | 4,238 | 0 | 690 | 9,101 | 62 | 119 |
| 20 | 220.90 | 45,498 | 1,124 | 0 | 1,494 | 3,690 | 4,054 | 0 | 0 | 9,098 | 62 | 489 |
| 21 | 220.16 | 43,567 | -1,931 | 0 | 1,630 | 2,659 | 4,355 | 0 | 374 | 9,137 | 72 | -35 |
| 22 | 220.71 | 45,001 | 1,434 | 0 | 2,174 | 5,058 | 2,867 | 0 | 449 | 9,054 | 68 | 195 |
| 23 | 220.41 | 44,218 | -783 | 0 | 1,633 | 3,941 | 3,605 | 0 | 0 | 9,674 | 70 | 170 |
| 24 | 220.25 | 43,801 | -417 | 0 | 1,396 | 4,280 | 3,641 | 0 | 0 | 9,414 | 76 | -37 |
| 25 | 221.17 | 46,206 | 2,405 | 0 | 1,532 | 5,620 | 3,617 | 0 | 0 | 9,476 | 86 | 6 |
| 26 | 220.28 | 43,879 | -2,327 | 0 | 1,345 | 257 | 6,239 | 0 | 0 | 8,970 | 86 | 42 |
| 27 | 221.55 | 47,204 | 3,325 | 0 | 1,547 | 5,389 | 3,227 | 0 | 0 | 8,523 | 92 | 128 |
| 28 | 221.55 | 47,204 | 0 | 0 | 1,728 | 3,748 | 3,430 | 0 | 0 | 8,713 | 112 | -81 |
| 29 | 221.41 | 46,836 | -368 | 0 | 1,337 | 3,900 | 3,272 | 0 | 0 | 8,492 | 112 | -91 |
| 30 | 221.04 | 45,865 | -971 | 0 | 1,404 | 3,902 | 3,614 | 0 | 0 | 9,157 | 116 | -137 |
| 31 | 221.46 | 46,968 | 1,103 | 0 | 1,449 | 4,827 | 3,433 | 0 | 0 | 9,066 | 110 | 23 |
| Total | | | -236 | 11 | 70,348 | 97,670 | 97,932 | 0 | 5,549 | 260,108 | 1,937 | 1,513 |
| Mean cfs | | | --- | 0 | 2,269 | 3,151 | 3,159 | 0 | 179 | 8,391 | 62 | 49 |
| ac-ft | | | -236 | 22 | 139,532 | 193,729 | 194,247 | 0 | 11,004 | 515,923 | 3,843 | 3,004 |

1/ Floodwater Mile 82.67R.

2/ Includes 0 AF delivered to DFG at O'Neill Forebay; does not include Parks and Recreation deliveries shown on Table 19.

Total Parks and Recreation deliveries for the year are included in December's operation report.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

July 1998

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

| Date | Water Surface Elev. (in feet) | Storage (ac-ft) | Storage Change (ac-ft) | Inflow (cfs) | Outflow (cfs) | | | Computed Losses (-) Gains (+) (cfs) |
|----------|----------------------------------|--------------------|---------------------------|--|--|-------------------|----------------|---|
| | | | | Gianelli Pumping Generating Plant (Pumped) | Gianelli Pumping Generating Plant (Generation) | Pacheco Tunnel 1/ | Sisk Dam Spill | |
| Jun 30 | 542.70 | 2,024,025 | | | | | | |
| 1 | 542.45 | 2,020,851 | -3,174 | 0 | 1,312 | 149 | 0 | -139 |
| 2 | 542.21 | 2,017,806 | -3,045 | 0 | 1,312 | 148 | 0 | -75 |
| 3 | 541.98 | 2,014,889 | -2,917 | 0 | 1,312 | 145 | 0 | -14 |
| 4 | 541.47 | 2,008,426 | -6,463 | 0 | 3,150 | 149 | 0 | 41 |
| 5 | 541.35 | 2,006,907 | -1,519 | 0 | 527 | 143 | 0 | -96 |
| 6 | 540.83 | 2,000,327 | -6,580 | 0 | 3,153 | 165 | 0 | 1 |
| 7 | 540.03 | 1,990,219 | -10,108 | 148 | 4,390 | 191 | 0 | -663 |
| 8 | 539.61 | 1,984,919 | -5,300 | 738 | 3,105 | 193 | 0 | -112 |
| 9 | 539.11 | 1,978,616 | -6,303 | 292 | 3,075 | 149 | 0 | -246 |
| 10 | 538.66 | 1,972,949 | -5,667 | 513 | 3,075 | 155 | 0 | -140 |
| 11 | 538.11 | 1,966,031 | -6,918 | 0 | 3,246 | 177 | 0 | -65 |
| 12 | 537.81 | 1,962,261 | -3,770 | 369 | 1,949 | 184 | 0 | -137 |
| 13 | 537.11 | 1,953,475 | -8,786 | 645 | 5,108 | 189 | 0 | 222 |
| 14 | 536.24 | 1,942,573 | -10,902 | 445 | 5,698 | 166 | 0 | -77 |
| 15 | 535.93 | 1,938,694 | -3,879 | 443 | 2,084 | 188 | 0 | -127 |
| 16 | 535.48 | 1,933,067 | -5,627 | 0 | 2,607 | 195 | 0 | -35 |
| 17 | 535.27 | 1,930,443 | -2,624 | 443 | 1,473 | 200 | 0 | -93 |
| 18 | 534.84 | 1,925,075 | -5,368 | 0 | 2,336 | 200 | 0 | -170 |
| 19 | 534.68 | 1,923,078 | -1,997 | 690 | 1,487 | 193 | 0 | -17 |
| 20 | 533.95 | 1,913,979 | -9,099 | 0 | 3,690 | 196 | 0 | -701 |
| 21 | 533.54 | 1,908,876 | -5,103 | 374 | 2,659 | 191 | 0 | -97 |
| 22 | 532.75 | 1,899,055 | -9,821 | 449 | 5,058 | 187 | 0 | -155 |
| 23 | 532.09 | 1,890,864 | -8,191 | 0 | 3,941 | 182 | 0 | -7 |
| 24 | 531.38 | 1,882,066 | -8,798 | 0 | 4,280 | 186 | 0 | 30 |
| 25 | 530.45 | 1,870,563 | -11,503 | 0 | 5,620 | 214 | 0 | 35 |
| 26 | 530.38 | 1,869,698 | -865 | 0 | 257 | 226 | 0 | 47 |
| 27 | 529.48 | 1,858,592 | -11,106 | 0 | 5,389 | 229 | 0 | 19 |
| 28 | 528.84 | 1,850,708 | -7,884 | 0 | 3,748 | 197 | 0 | -30 |
| 29 | 528.18 | 1,842,590 | -8,118 | 0 | 3,900 | 198 | 0 | 5 |
| 30 | 527.50 | 1,834,238 | -8,352 | 0 | 3,902 | 177 | 0 | -132 |
| 31 | 526.69 | 1,824,308 | -9,930 | 0 | 4,827 | 141 | 0 | -38 |
| Total | | | -199,717 | 5,549 | 97,670 | 5,603 | 0 | -2,965 |
| Mean cfs | | | --- | 179 | 3,151 | 181 | 0 | -96 |
| ac-ft | | | -199,717 | 11,004 | 193,729 | 11,114 | 0 | -5,878 |

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 8,141 AF, San Benito: 2,973 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

July 1998

| Date | Dos Amigos Pumping Plant | | Gianelli Pumping - Generating Plant | | | | San Felipe Project |
|-------|-----------------------------|--------------------------|--|-----------------------------|------------------|--------------------------|-----------------------|
| | Total Pumping | SWP Pumping 1/, 2/ | Total Generation | SWP Generation 1/, 2/ | Total Pumping | SWP Pumping 1/, 2/ | Federal |
| 1 | 15,055 | 7,405 | 2,602 | -48 | 0 | 0 | 295 |
| 2 | 14,686 | 6,939 | 2,602 | -56 | 0 | 0 | 294 |
| 3 | 15,006 | 5,992 | 2,602 | -93 | 0 | 0 | 288 |
| 4 | 15,899 | 6,226 | 6,248 | -218 | 0 | 0 | 295 |
| 5 | 13,299 | 3,686 | 1,045 | -32 | 0 | 0 | 284 |
| 6 | 13,063 | 2,647 | 6,254 | -213 | 0 | 0 | 327 |
| 7 | 15,578 | 4,859 | 8,708 | 2,292 | 293 | 293 | 379 |
| 8 | 15,700 | 5,158 | 6,159 | 433 | 1,464 | 1,463 | 383 |
| 9 | 17,313 | 7,119 | 6,099 | 37 | 579 | 579 | 295 |
| 10 | 17,429 | 7,301 | 6,099 | -89 | 1,017 | 1,017 | 307 |
| 11 | 15,460 | 5,245 | 6,438 | -7 | 0 | 0 | 351 |
| 12 | 14,683 | 3,513 | 3,866 | 1,068 | 732 | 732 | 365 |
| 13 | 15,212 | 3,829 | 10,132 | 3,939 | 1,279 | 1,280 | 375 |
| 14 | 16,875 | 5,495 | 11,302 | 4,979 | 883 | 883 | 329 |
| 15 | 15,733 | 5,803 | 4,134 | 1,547 | 879 | 879 | 373 |
| 16 | 16,611 | 7,014 | 5,171 | 1,034 | 0 | 0 | 387 |
| 17 | 17,094 | 8,113 | 2,922 | -70 | 879 | 879 | 397 |
| 18 | 17,422 | 8,498 | 4,633 | 1,847 | 0 | 0 | 397 |
| 19 | 18,052 | 9,066 | 2,950 | -38 | 1,369 | 1,369 | 383 |
| 20 | 18,046 | 9,035 | 7,319 | -128 | 0 | 0 | 389 |
| 21 | 18,124 | 9,346 | 5,274 | -114 | 742 | 742 | 379 |
| 22 | 17,959 | 11,545 | 10,033 | 4,485 | 888 | 888 | 371 |
| 23 | 19,188 | 12,680 | 7,817 | 5,717 | 0 | 0 | 361 |
| 24 | 18,673 | 12,612 | 8,489 | 6,421 | 0 | 0 | 369 |
| 25 | 18,795 | 12,779 | 11,147 | 5,937 | 0 | 0 | 424 |
| 26 | 17,792 | 11,770 | 510 | 509 | 0 | 0 | 448 |
| 27 | 16,905 | 10,823 | 10,689 | 5,753 | 0 | 0 | 454 |
| 28 | 17,282 | 11,216 | 7,434 | 5,451 | 0 | 0 | 391 |
| 29 | 16,844 | 11,264 | 7,736 | 5,448 | 0 | 0 | 393 |
| 30 | 18,163 | 12,721 | 7,740 | 4,344 | 0 | 0 | 351 |
| 31 | 17,982 | 12,447 | 9,575 | 4,429 | 0 | 0 | 280 |
| Total | 515,923 | 252,146 | 193,729 | 64,564 | 11,004 | 11,004 | 11,114 |

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;

adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
July 1998

United States
Department of the Interior
Bureau of Reclamation
Central Valley Projec

State of California
The Resources Agency
Department of Water Resources
State Water Projec

Capacity: 34,560 ac-ft

| Date | Water Surface Elev. (in feet) | Storage (ac-ft) | Storage Change (ac-ft) | Estimated Inflow (cfs) | Estimated Outflow (cfs) | | Computed Losses (-) Gains (+) (ac-ft) |
|---------------|----------------------------------|--------------------|---------------------------|---------------------------|-------------------------|--------|---|
| | | | | | Spill | Outlet | |
| Jun 30 | 329.65 | 21,454 | | | | | |
| 1 | 329.65 | 21,454 | 0 | 0 | 0 | 0 | 0 |
| 2 | 329.63 | 21,445 | -9 | 0 | 0 | 0 | -9 |
| 3 | 329.63 | 21,445 | 0 | 0 | 0 | 0 | 0 |
| 4 | 329.65 | 21,454 | 9 | 5 | 0 | 0 | -1 |
| 5 | 329.65 | 21,454 | 0 | 0 | 0 | 0 | 0 |
| 6 | 329.65 | 21,454 | 0 | 0 | 0 | 0 | 0 |
| 7 | 329.65 | 21,454 | 0 | 0 | 0 | 0 | 0 |
| 8 | 329.63 | 21,445 | -9 | 0 | 0 | 0 | -9 |
| 9 | 329.61 | 21,435 | -10 | 0 | 0 | 0 | -10 |
| 10 | 329.58 | 21,421 | -14 | 0 | 0 | 0 | -14 |
| 11 | 329.59 | 21,425 | 4 | 2 | 0 | 0 | 0 |
| 12 | 329.59 | 21,425 | 0 | 0 | 0 | 0 | 0 |
| 13 | 329.57 | 21,416 | -9 | 0 | 0 | 0 | -9 |
| 14 | 329.56 | 21,411 | -5 | 0 | 0 | 0 | -5 |
| 15 | 329.55 | 21,406 | -5 | 0 | 0 | 0 | -5 |
| 16 | 329.54 | 21,401 | -5 | 0 | 0 | 0 | -5 |
| 17 | 329.53 | 21,397 | -4 | 0 | 0 | 0 | -4 |
| 18 | 329.52 | 21,392 | -5 | 0 | 0 | 0 | -5 |
| 19 | 329.50 | 21,382 | -10 | 0 | 0 | 0 | -10 |
| 20 | 329.47 | 21,368 | -14 | 0 | 0 | 0 | -14 |
| 21 | 329.44 | 21,353 | -15 | 0 | 0 | 0 | -15 |
| 22 | 329.44 | 21,353 | 0 | 0 | 0 | 0 | 0 |
| 23 | 329.44 | 21,353 | 0 | 0 | 0 | 0 | 0 |
| 24 | 329.41 | 21,339 | -14 | 0 | 0 | 0 | -14 |
| 25 | 329.38 | 21,325 | -14 | 0 | 0 | 0 | -14 |
| 26 | 329.37 | 21,320 | -5 | 0 | 0 | 0 | -5 |
| 27 | 329.36 | 21,315 | -5 | 0 | 0 | 0 | -5 |
| 28 | 329.33 | 21,301 | -14 | 0 | 0 | 0 | -14 |
| 29 | 329.30 | 21,286 | -15 | 0 | 0 | 0 | -15 |
| 30 | 329.27 | 21,272 | -14 | 0 | 0 | 0 | -14 |
| 31 | 329.25 | 21,262 | -10 | 0 | 0 | 0 | -10 |
| Total | | | -192 | 7 | 0 | 0 | -206 |
| Mean cfs-days | | | --- | 0 | 0 | 0 | --- |
| Acre-feet | | | -192 | 14 | 0 | 0 | -206 |

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

July 1998

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

| Date | Water Surface Elev. (in feet) | Storage (ac-ft) 1/ | Storage Change (ac-ft) 1/ | Computed Inflow (cfs) | Estimated Outflow (cfs) | | Computed Losses (-) Gains (+) (ac-ft) 1/ |
|-------------------|----------------------------------|--------------------------|---------------------------------|--------------------------|-------------------------|--------|---|
| | | | | | Spill | Outlet | |
| Jun 30 | 602.70 | 832 | | | | | |
| 1 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 2 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 3 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 4 | Not Observed | | | 4 | 0 | 4 | |
| 5 | Not Observed | | | 4 | 0 | 4 | |
| 6 | Not Observed | | | 4 | 0 | 4 | |
| 7 | Not Observed | | | 4 | 0 | 4 | |
| 8 | Not Observed | | | 4 | 0 | 4 | |
| 9 | Not Observed | | | 4 | 0 | 4 | |
| 10 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 11 | Not Observed | | | 4 | 0 | 4 | |
| 12 | Not Observed | | | 4 | 0 | 4 | |
| 13 | Not Observed | | | 4 | 0 | 4 | |
| 14 | Not Observed | | | 4 | 0 | 4 | |
| 15 | Not Observed | | | 4 | 0 | 4 | |
| 16 | Not Observed | | | 4 | 0 | 4 | |
| 17 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 18 | Not Observed | | | 4 | 0 | 4 | |
| 19 | Not Observed | | | 4 | 0 | 4 | |
| 20 | Not Observed | | | 4 | 0 | 4 | |
| 21 | Not Observed | | | 4 | 0 | 4 | |
| 22 | Not Observed | | | 4 | 0 | 4 | |
| 23 | Not Observed | | | 4 | 0 | 4 | |
| 24 | 602.70 | 832 | 0 | 4 | 0 | 4 | 0 |
| 25 | Not Observed | | | 4 | 0 | 4 | |
| 26 | Not Observed | | | 4 | 0 | 4 | |
| 27 | Not Observed | | | 4 | 0 | 4 | |
| 28 | Not Observed | | | 4 | 0 | 4 | |
| 29 | Not Observed | | | 4 | 0 | 4 | |
| 30 | Not Observed | | | 4 | 0 | 4 | |
| 31 | 602.70 | 832 | 0 | 5 | 0 | 5 | 0 |
| Total | | | 0 | 125 | 0 | 125 | --- |
| Mean cfs ac-ft | | | --- | 4 | 0 | 4 | --- |
| | | | 0 | 248 | 0 | 248 | 0 |

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diver-sions | Deliveries | | | | | |
|-----------|----------------------|--------------------------|---------------------------------|------------------------------------|-------------------|------------|----------------------|----------------|-----------------|--|--|
| | Beginning and Ending | | | | | USBR | Transfer or Exchange | DWR Recreation | USBR Recreation | | |
| | No. | Structure | Mile | | | | | | | | |
| 2B | 12 | Check No. 12 | 66.71 | | 194,247 | | | | | | |
| 3 | 13 | O'Neill Forebay | | Department of Parks and Recreation | 20 | | | 11 | 9 | | |
| | | Outlet Check No. 13 | 70.85 | Department of Fish & Game | 0 | | | 0 | 0 | | |
| | | | 70.91 | San Luis Water District | 3,843 | 3,843 | | | | | |
| | | | Thru | (Floodwater Inflow) | 22 | | | | | | |
| | | | 85.08 | Reach 3 Subtotal: | 3,863 | | 0 | 11 | 9 | | |
| | | Dos Amigos Pumping Plant | 86.73 | | 515,923 | | | | | | |
| 4 | 14 | | 89.03 | San Luis Water District | 12,000 | 12,000 | | | | | |
| | | | Thru | | | | | | | | |
| | | | 94.06 | | | | | | | | |
| | | | 89.66 | Pacheco Water District | 2,081 | | 2,081 | | | | |
| | | | Thru | | | | | | | | |
| | | | 89.67 | | | | | | | | |
| | | | 89.68 | Panoche Water District | 5 | 5 | | | | | |
| | | | 89.70 | City of Dos Palos | 173 | | | | | | |
| | | Check No. 14 | 95.06 | | | | | | | | |
| | 15 | | 98.15 | San Luis Water District | 975 | 975 | | | | | |
| | | | Thru | | | | | | | | |
| | | | 104.20 | | | | | | | | |
| | | | 96.15 | Panoche Water District | 14,449 | | 14,449 | | | | |
| | | | Thru | (Floodwater Inflow) | 25 | | | | | | |
| | | | 102.64 | Broadview Water District | 3 | | 3 | | | | |
| | | | 102.64 | Westlands Water District | 29,789 | | | | | | |
| | | Check No.15 | 108.50 | | | | | | | | |
| | | | Pacheco Water District Total: | | 2,081 | 2,081 | 0 | 0 | 0 | | |
| | | | Broadview Water District Total: | | 3 | | 0 | 0 | 0 | | |
| | | | City of Dos Palos Total: | | 173 | 173 | 0 | 0 | 0 | | |
| | | | SLWD Reach 4 Subtotal: | | 12,975 | | 0 | 0 | 0 | | |
| | | | Panoche Water District Total: | | 14,454 | 14,454 | 0 | 0 | 0 | | |
| | | | SLWD Total: | | 16,818 | | 0 | 0 | 0 | | |
| | | | Westlands WD Reach 4 Subtotal: | | 29,789 | | 0 | 0 | 0 | | |

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diver-sions | Deliveries | | | | | | | |
|-----------|----------------------|-------------------------------|--------|---|-------------------|------------|-------------------------|----------------|-----------------|--|--|--|--|
| | Beginning and Ending | | | | | USBR | Transfer or Exchange 1/ | DWR Recreation | USBR Recreation | | | | |
| | No. | Structure | Mile | | | | | | | | | | |
| 5 | 16 | | 110.52 | (Reverse flow, Kings River) | 0 | 39,138 | | | | | | | |
| | | | Thru | Westlands Water District | 39,138 | | | | | | | | |
| | | | 122.05 | Department of Fish and Game | 0 | | | | | | | | |
| | | Check No. 16 | 122.07 | | | | | | | | | | |
| | 17 | | 124.18 | Westlands Water District | 34,604 | 34,604 | | | | | | | |
| | | | Thru | | | | | | | | | | |
| | | | 132.74 | | | | | | | | | | |
| | | Check No. 17 | 132.95 | | | | | | | | | | |
| | 18 | | 133.81 | Westlands Water District | 32,380 | 32,380 | | | | | | | |
| | | | Thru | | | | | | | | | | |
| | | | 142.61 | | | | | | | | | | |
| | | Pleasant Valley Pumping Plant | 143.16 | Westlands Water District | 22,966 | | | | | | | | |
| | | | 143.16 | City of Coalinga | 581 | | | | | | | | |
| | | Check No. 18 | 143.23 | | | | | | | | | | |
| | | | | Westlands WD Reach 5 Subtotal: | 129,088 | 129,088 | 0 | 0 | 0 | | | | |
| 6 | 19 | | 145.26 | Westlands Water District | 48,334 | 28,311 | 20,023 | | | | | | |
| | | | Thru | | | | | | | | | | |
| | | | 151.19 | | | | | | | | | | |
| | | Check No. 19 | 155.64 | | | | | | | | | | |
| | | | | Westlands WD Reach 6 Subtotal: | 48,334 | 28,311 | 20,023 | 0 | 0 | | | | |
| 7 | 20 | | 156.34 | City of Huron | 149 | 149 | 24,887 | | | | | | |
| | | | 156.40 | Westlands Water District | 24,887 | | | | | | | | |
| | | | Thru | | | | | | | | | | |
| | | | 163.69 | | | | | | | | | | |
| | | Check No. 20 | 164.69 | | | | | | | | | | |
| | 21 | | 164.79 | City of Avenal | 249 | 249 | 8,113 | | | | | | |
| | | | 167.04 | Westlands Water District | 8,287 | | | | | | | | |
| | | | Thru | | | | | | | | | | |
| | | | 171.67 | | | | | | | | | | |
| | | Check No. 21 | 172.40 | | | 248,566 | | | | | | | |
| | | | | Reach 7 Total: | 33,572 | 572 | 33,000 | 0 | 0 | | | | |
| | | | | Westlands WD Total: | 240,385 | 187,362 | 53,023 | 0 | 0 | | | | |
| | | | | City of Coalinga Total: | 581 | 581 | 0 | 0 | 0 | | | | |
| | | | | City of Huron Total: | 149 | 149 | 0 | 0 | 0 | | | | |
| | | | | City of Avenal Total: | 249 | 249 | 0 | 0 | 0 | | | | |
| | | | | Phase I Water Total: | 0 | 0 | 0 | 0 | 0 | | | | |
| | | | | Total San Luis Field Division Deliveries: | 274,913 | 221,870 | 53,023 | 11 | 9 | | | | |

1/ KCWA entitlement delivered to WWD in accordance to agreements made in April, June, and July 1998.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

July 1998

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

| Date | Storage In Canal (ac-ft) | Storage Change (ac-ft) | Inflow (cfs) | | Outflow (cfs) | | | | Computed Losses (-) Gains (+) (cfs) |
|------------|--------------------------------|------------------------------|-----------------------|--------------------------------|-------------------------------|------------------------------|--------------------------------|--------------------------|--|
| | | | Non- Project 2/ | Dos Amigos Pumping Plant | San Luis Water Dist. 3/ | Panoche Water District | Westlands Water Dist. 4/ | Flow Past Check 21 | |
| Jun 30 | 28,870 | | | | | | | | |
| 1 | 29,464 | 594 | 1 | 7,590 | 173 | 236 | 4,003 | 2,593 | -287 |
| 2 | 29,117 | -347 | 0 | 7,404 | 227 | 264 | 4,588 | 2,889 | 389 |
| 3 | 28,719 | -398 | 0 | 7,565 | 284 | 224 | 4,043 | 2,980 | -235 |
| 4 | 29,718 | 999 | 0 | 8,016 | 180 | 218 | 4,166 | 2,558 | -391 |
| 5 | 29,719 | 1 | 1 | 6,705 | 206 | 276 | 4,048 | 2,245 | 70 |
| 6 | 29,127 | -592 | 0 | 6,586 | 277 | 184 | 3,991 | 2,585 | 153 |
| 7 | 29,454 | 327 | 1 | 7,854 | 208 | 276 | 4,257 | 2,732 | -217 |
| 8 | 28,608 | -846 | 0 | 7,915 | 153 | 207 | 4,033 | 3,624 | -325 |
| 9 | 28,661 | 53 | 1 | 8,729 | 298 | 260 | 4,319 | 3,853 | 27 |
| 10 | 28,884 | 223 | 0 | 8,787 | 295 | 268 | 4,249 | 4,126 | 263 |
| 11 | 28,672 | -212 | 1 | 7,794 | 224 | 248 | 3,736 | 3,814 | 120 |
| 12 | 29,010 | 338 | 0 | 7,403 | 213 | 248 | 3,610 | 3,403 | 241 |
| 13 | 29,350 | 340 | 1 | 7,669 | 192 | 154 | 3,955 | 3,649 | 451 |
| 14 | 29,350 | 0 | 0 | 8,508 | 217 | 192 | 3,819 | 4,124 | -156 |
| 15 | 29,429 | 79 | 1 | 7,932 | 220 | 240 | 3,780 | 4,136 | 483 |
| 16 | 29,184 | -245 | 0 | 8,375 | 261 | 211 | 3,853 | 4,352 | 178 |
| 17 | 29,222 | 38 | 1 | 8,618 | 275 | 239 | 3,649 | 4,479 | 42 |
| 18 | 28,845 | -377 | 0 | 8,783 | 172 | 262 | 3,944 | 4,831 | 236 |
| 19 | 29,213 | 368 | 1 | 9,101 | 299 | 258 | 3,808 | 4,530 | -21 |
| 20 | 28,964 | -249 | 0 | 9,098 | 298 | 267 | 4,127 | 4,895 | 363 |
| 21 | 28,785 | -179 | 1 | 9,137 | 311 | 266 | 4,534 | 4,840 | 723 |
| 22 | 28,545 | -240 | 0 | 9,054 | 333 | 277 | 3,337 | 4,682 | -546 |
| 23 | 28,617 | 72 | 1 | 9,674 | 317 | 265 | 4,489 | 5,171 | 603 |
| 24 | 28,818 | 201 | 0 | 9,414 | 236 | 216 | 3,353 | 4,746 | -762 |
| 25 | 29,088 | 270 | 1 | 9,476 | 215 | 210 | 3,901 | 4,849 | -166 |
| 26 | 29,360 | 272 | 0 | 8,970 | 248 | 209 | 4,079 | 4,722 | 425 |
| 27 | 29,494 | 134 | 0 | 8,523 | 258 | 209 | 3,138 | 4,343 | -507 |
| 28 | 29,108 | -386 | 0 | 8,713 | 263 | 209 | 3,796 | 4,894 | 254 |
| 29 | 28,720 | -388 | 0 | 8,492 | 259 | 226 | 3,394 | 4,774 | -35 |
| 30 | 29,196 | 476 | 0 | 9,157 | 283 | 253 | 3,982 | 4,840 | 441 |
| 31 | 29,347 | 151 | 0 | 9,066 | 283 | 215 | 3,706 | 5,058 | 272 |
| Total | | 477 | 13 | 260,108 | 7,678 | 7,287 | 121,687 | 125,317 | 2,086 |
| Mean (cfs) | | --- | 0 | 8,391 | 248 | 235 | 3,925 | 4,042 | 67 |
| Acre-feet | | 477 | 25 | 515,923 | 15,229 | 14,454 | 241,367 | 248,566 | 4,145 |

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Flood Water is included in the gain or loss

3/ Includes 2,080 AF AG & 1 AF M&I to Pacheco W.D. and 173 AF to the City of Dos Palo

4/ Includes 149 AF to the City of Huron, 249 AF to the City of Avenal, 581 AF to the City of Coalinga, 0 , Phase I Water @ Lat. 13R, and 3 AF to Broadview W.D

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

July 1998

| Date | Coastal Aqueduct | | | | | California Aqueduct | | | |
|-------|-------------------------------|------------------------------|------------------------------|----------------------------|-------------------------------|------------------------------|--------------------------|---------------------------|----------------------------|
| | Las Perillas Pumping Plant | Badger Hill Pumping Plant | Devil's Den Pumping Plant | Bluestone Pumping Plant | Polonio Pass Pumping Plant | Buena Vista Pumping Plant | Teerink Pumping Plant | Chrismen Pumping Plant | Edmonston Pumping Plant |
| 1 | 742 | 800 | 91 | 101 | 93 | 3,233 | 2,447 | 2,193 | 2,021 |
| 2 | 689 | 729 | 91 | 91 | 91 | 3,223 | 2,532 | 2,253 | 2,048 |
| 3 | 672 | 701 | 81 | 82 | 85 | 3,249 | 2,476 | 2,196 | 2,095 |
| 4 | 671 | 703 | 91 | 93 | 95 | 3,125 | 2,485 | 2,147 | 1,885 |
| 5 | 656 | 686 | 89 | 91 | 93 | 2,730 | 2,005 | 1,824 | 1,694 |
| 6 | 719 | 748 | 76 | 76 | 78 | 2,776 | 2,259 | 1,947 | 1,827 |
| 7 | 760 | 809 | 82 | 82 | 84 | 3,178 | 2,576 | 2,270 | 2,106 |
| 8 | 781 | 832 | 74 | 76 | 76 | 3,259 | 2,501 | 2,165 | 1,934 |
| 9 | 683 | 717 | 69 | 74 | 74 | 2,996 | 2,160 | 1,935 | 1,852 |
| 10 | 773 | 831 | 97 | 97 | 97 | 3,356 | 2,643 | 2,368 | 2,201 |
| 11 | 657 | 711 | 101 | 100 | 101 | 2,664 | 2,051 | 1,869 | 1,664 |
| 12 | 624 | 650 | 89 | 91 | 93 | 2,670 | 1,447 | 1,700 | 1,690 |
| 13 | 603 | 616 | 70 | 73 | 73 | 2,781 | 2,247 | 2,238 | 1,896 |
| 14 | 760 | 873 | 111 | 112 | 112 | 3,718 | 3,079 | 2,695 | 2,514 |
| 15 | 726 | 793 | 89 | 91 | 92 | 3,698 | 3,073 | 2,674 | 2,509 |
| 16 | 628 | 693 | 86 | 87 | 89 | 4,160 | 3,045 | 2,679 | 2,508 |
| 17 | 772 | 804 | 105 | 105 | 107 | 3,718 | 3,198 | 2,817 | 2,561 |
| 18 | 814 | 868 | 97 | 97 | 99 | 4,127 | 3,203 | 2,877 | 2,678 |
| 19 | 850 | 918 | 98 | 99 | 103 | 4,254 | 3,681 | 3,388 | 3,210 |
| 20 | 837 | 903 | 87 | 87 | 90 | 3,590 | 3,088 | 2,698 | 2,606 |
| 21 | 826 | 893 | 120 | 121 | 122 | 3,810 | 3,507 | 3,152 | 2,878 |
| 22 | 796 | 858 | 76 | 78 | 81 | 3,749 | 2,821 | 2,533 | 2,398 |
| 23 | 713 | 770 | 89 | 89 | 94 | 4,582 | 3,646 | 3,265 | 3,185 |
| 24 | 704 | 755 | 106 | 108 | 111 | 4,353 | 3,583 | 3,238 | 3,059 |
| 25 | 770 | 790 | 73 | 74 | 75 | 4,064 | 3,457 | 3,147 | 2,928 |
| 26 | 843 | 918 | 101 | 101 | 102 | 4,213 | 3,642 | 3,346 | 3,226 |
| 27 | 793 | 852 | 71 | 72 | 76 | 3,893 | 3,058 | 2,900 | 2,686 |
| 28 | 819 | 899 | 83 | 84 | 85 | 4,002 | 3,325 | 2,971 | 2,792 |
| 29 | 857 | 918 | 79 | 81 | 85 | 3,790 | 3,285 | 2,963 | 2,788 |
| 30 | 850 | 918 | 106 | 108 | 108 | 3,997 | 3,290 | 2,978 | 2,793 |
| 31 | 812 | 872 | 102 | 103 | 103 | 3,812 | 3,293 | 2,967 | 2,766 |
| Total | 23,200 | 24,828 | 2,780 | 2,824 | 2,867 | 110,770 | 89,103 | 80,393 | 74,998 |

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diversions | Deliveries | | | | | | | |
|-----------|----------------------|--------------|-----------|-----------------------------------|--------------------------|--------------|------------------------|-----------------|-------------|-------------|--|--|--|
| | Beginning and Ending | | Structure | | | Entitle-ment | Semitropic WSD Storage | Purchase Pool A | Transfer 1/ | MWD Ent. 2/ | | | |
| | No. | | Mile | | | | | | | | | | |
| 7 | 21 | Check No. 21 | 172.40 | | 248,566 | | | | | | | | |
| 8C | 22 | | 172.66 | Empire West Side Irrig. Dist. | | 600 | 1,867 | 90 | | | | | |
| | | | | TL - A | 0 | | | | | | | | |
| | | | | County of Kings | | | | | | | | | |
| | | | | TL - A | 0 | | | | | | | | |
| | | | | TLBWS D TL-A | 690 | | | | | | | | |
| | | | | 175.18 | DRWD - 1 | | | | | | | | |
| | | | | 177.54 | DRWD - 1B | | | | | | | | |
| | | | | 180.64 | TLBWS D - C | | | | | | | | |
| | | | | 180.65 | DRWD - 1A | | | | | | | | |
| | | | | 182.99 | DRWD - 2 | | | | | | | | |
| 8D | | | | 183.00 | Tulare Lake Basin WSD | 554 | 5,490 | 0 | 0 | 0 | | | |
| | | | | TL - B | | | | | | | | | |
| 31A | | | | 184.63 | Coastal Branch | | | | | | | | |
| 8D | | | | 184.78 | Dudley Ridge Water Dist. | 690 | 2,000 | 0 | 0 | 0 | | | |
| | | | | DRWD - 3 | | | | | | | | | |
| | | | | Dudley Ridge Reach 8D Total: | 11,642 | | | | | | | | |
| | | | | Tulare Lake Basin WSD Total: | 1,244 | | | | | | | | |
| 9 | 23 | | 189.69 | Kern County Water Agency | | 7,713 | 7,713 | 0 | 0 | 0 | | | |
| | | | | Lost Hills Water Dist. - 1 | 7,713 | | | | | | | | |
| | | | | 191.18 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 2 | 3,364 | | | | | | | | |
| | | | | 194.22 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 3 | 2,024 | | | | | | | | |
| | | | | 196.40 | Kern County Water Agency | | | | | | | | |
| | | | | Berrenda Mesa - 2 | 0 | | | | | | | | |
| | | | | 196.75 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 4 | 2,517 | | | | | | | | |
| 10A | 24 | | 197.05 | K.C.W.A. Reach 9 Subtotal: | 15,618 | 15,618 | 0 | 0 | 0 | 0 | | | |
| | | | | Check No. 23 | | | | | | | | | |
| | | | | 201.24 | Kern County Water Agency | 3,108 | 3,108 | 0 | 0 | 0 | | | |
| | | | | Lost Hills Water Dist. - 7 | 3,108 | | | | | | | | |
| | | | | 202.05 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 5 | 4,455 | | | | | | | | |
| | | | | 204.69 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 6 | 0 | | | | | | | | |
| | | | | 205.26 | Kern County Water Agency | | | | | | | | |
| | | | | Lost Hills Water Dist. - 8 | 0 | | | | | | | | |
| 10A | 25 | | 207.94 | Check No. 24 | | 2,322 | 2,322 | 0 | 0 | 0 | | | |
| | | | | 209.71 | Kern County Water Agency | | | | | | | | |
| | | | | Belridge Water Storage Dist. - 1A | 2,322 | | | | | | | | |
| | | | | Kern National Wildlife Refuge | | | | | | | | | |
| | | | | USBR BV-1B | 0 | | | | | | | | |
| | | | | 209.78 | Kern County Water Agency | | | | | | | | |
| | | | | Buena Vista WSD 1B | 1,491 | | | | | | | | |
| | | | | KCWA Semitropic WSD | 31,575 | | | | | | | | |
| | | | | KCWA Semitropic WSD Penstocks | 14,237 | | | | | | | | |
| | | | | USBR Total: | 0 | | | | | | | | |
| | | | | K.C.W.A. Reach 10A Subtotal: | 57,188 | | | | | | | | |

1/ Dudley Ridge WD Ag entitlement transferred to TLBWS D.

2/ Semitropic WSD is storing this water for MWD.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | Turnout | Total Diver- sions | Deliveries | | | | | |
|--------------|----------------------|--------------|--|--------------------------|------------------|-------------------------------|--------------------|----------|-------------|--|
| | Beginning and Ending | | | | Entitle- ment | Semitropi c WSD Storage | Purchase Pool A | Transfer | MWD Ent. | |
| | No. | Structure | Mile | | | | | | | |
| 11B | 25 | | Kern County Water Agency Belridge - 2 | 0 | 3,268 | 3,268 | 0 | 0 | 0 | |
| | | | Kern County Water Agency Belridge - 3 | 3,268 | | | | | | |
| | | | Kern County Water Agency Belridge - 4 | 0 | | | | | | |
| | | | Kern County Water Agency Belridge - 5 | 16,472 | 16,472 | 82 | 0 | 0 | 0 | |
| | | | Kern County Water Agency Belridge - 5D | 82 | | | | | | |
| | | Check No. 25 | 217.79 | | | | | | | |
| | | | K.C.W.A. Reach 11B Subtotal | 19,822 | 19,822 | 0 | 0 | 0 | 0 | |
| 12D | 26 | | Kern County Water Agency Belridge - 6 | 0 | 3,451 | 267 | 0 | 0 | 0 | |
| | | | Check No. 26 | 224.92 | | | | | | |
| 12E | 27 | | Kern County Water Agency Buena Vista - 6 | 3,451 | | | | | | |
| | | | Check No. 27 | 231.73 | | | | | | |
| | 28 | | Kern County Water Agency Buena Vista - 2 | 267 | | | | | | |
| | | | Kern County WA CVC | 2,697 | | | | | | |
| | | | DRWD CVC | 0 | | | | | | |
| | | | Tulare Co. | 0 | | | | | | |
| | | | Lower Tule River | 0 | | | | | | |
| | | | Fresno Co. | 0 | | | | | | |
| | | | Pixley ID | 0 | | | | | | |
| | | | Hacienda | | | | | | | |
| | | | DWR Wells | 0 | | | | | | |
| | Check No. 28 | 238.11 | | | | | | | | |
| | | | 1/ Arvin Edison Total: | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | Reach 12E Subtotal: | 6,415 | 6,415 | 0 | 0 | 0 | 0 | |
| 13B | 29 | | 241.02 Kern River Intertie (inflow) | 12,803 | 1,293 | 1,293 | 0 | 0 | 0 | |
| | | | KCWA Buena Vista WSD - 7 | 1,293 | | | | | | |
| | | | KCWA Buena Vista WSD - 5 | 0 | | | | | | |
| | | | Kern County Water Agency Buena Vista - 3 | 2,489 | 2,489 | 1,351 | 0 | 0 | 0 | |
| | | | Check No. 29 | 244.54 Buena Vista WSD | | | | | | |
| | 30 | | Kern County Water Agency Buena Vista - 4 | 1,351 | | | | | | |
| | | | Buena Vista Pumping Plant | 110,770 | | | | | | |
| | | | K.C.W.A. Reach 13B Subtotal: | 5,133 | 5,133 | 0 | 0 | 0 | 0 | |
| 14A | 31 | | 254.47 Kern County Water Agency West Kern - 2 | 0 | 245 | 245 | 0 | 0 | 0 | |
| | | | Kern County Water Agency Wheeler Ridge-Maricopa - 2 | 245 | | | | | | |

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diversions | Deliveries | | | | | | | |
|-------------------------|----------------------|------------------------|--------|--|------------------|--------------|------------------------|-----------------|----------|----------|--|--|--|
| | Beginning and Ending | | | | | Entitle-ment | Semitropic WSD Storage | Purchase Pool A | Transfer | MWD Ent. | | | |
| | No. | Structure | Mile | | | | | | | | | | |
| 14A | 31 | Check No. 31 | 256.14 | Kern County Water Agency Wheeler Ridge-Maricopa - 3 | 1,164 | 1,164 | | | | | | | |
| | 32 | | 258.61 | | | | | | | | | | |
| | | | 260.44 | | | | | | | | | | |
| | | | 261.72 | | | | | | | | | | |
| | | | | KCWA Reach 14A Subtotal: | 3,741 | 3,741 | 0 | 0 | 0 | 0 | | | |
| 14B | 33 | | 264.42 | Kern County Water Agency Wheeler Ridge-Maricopa - 5 | 7,096 | 7,096 | | | | | | | |
| | | | 266.91 | Kern County Water Agency Wheeler Ridge-Maricopa - 6 | 996 | | | | | | | | |
| | | | 267.36 | | | | | | | | | | |
| | 34 | | 270.24 | Kern County Water Agency Wheeler Ridge-Maricopa - 7 | 6,733 | | 6,733 | | | | | | |
| | | | 271.27 | | | | | | | | | | |
| | | | | Reach 14B Total: | 14,825 | 14,825 | 0 | 0 | 0 | 0 | | | |
| 14C | 35 | | 272.39 | Kern County Water Agency Wheeler Ridge-Maricopa - 8 | 3,742 | 3,742 | | | | | | | |
| | | | 276.09 | Kern County Water Agency Wheeler Ridge-Maricopa - 9 | 1,720 | | | | | | | | |
| | | | | Reach 14C Total: | 5,462 | | 5,462 | 0 | 0 | 0 | | | |
| | | | | | | | | | | | | | |
| 15A | 36 | Teerink Pumping Plant | 278.13 | | 89,103 | 942 | | | | | | | |
| | | | 279.02 | Kern County Water Agency Wheeler Ridge-Maricopa - 9A | 942 | | | | | | | | |
| | | | 280.06 | Kern County Water Agency Wheeler Ridge-Maricopa - 10 | 6,695 | | 6,695 | 0 | 0 | 0 | | | |
| | | | | Reach 15-A Total: | 7,637 | | | | | | | | |
| | | Chrisman Pumping Plant | 280.36 | | 80,393 | | | | | | | | |
| 16A | 37 | | 282.06 | Kern County Water Agency Wheeler Ridge-Maricopa - 11 | 0 | 633 | | | | | | | |
| | | | 283.95 | | | | | | | | | | |
| | | | 285.01 | Kern County Water Agency Wheeler Ridge-Maricopa - 12 | 0 | | | | | | | | |
| | 38 | | 286.39 | Kern County Water Agency Wheeler Ridge-Maricopa - 13A | 633 | | 473 | 0 | 0 | 0 | | | |
| | | | 287.06 | Kern County Water Agency Wheeler Ridge-Maricopa - 13 | 0 | | | | | | | | |
| | 39 | Check No. 38 | 287.09 | | | | | | | | | | |
| | 40 | | 287.62 | Kern County Water Agency Wheeler Ridge-Maricopa - 13B | 473 | 1,946 | | | | | | | |
| | | | 290.21 | | | | | | | | | | |
| | | | 291.26 | Kern County Water Agency Wheeler Ridge-Maricopa - 14 | 1,946 | | 444 | 0 | 0 | 0 | | | |
| | | | 293.07 | Kern County Water Agency Wheeler Ridge-Maricopa - 15 | 444 | | | | | | | | |
| | | | | Kern County Water Agency Tehachapi Cummings CWD | 1,240 | | | | | | | | |
| 17E | | | | K.C.W.A. Reach 16A Subtotal: | 4,736 | 4,736 | 0 | 0 | 0 | 0 | | | |
| Edmonston Pumping Plant | 293.45 | | | 74,998 | | | | | | | | | |

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diversions | Deliveries | | | | | | |
|-----------|----------------------|----------------------------|--------|--|------------------|--------------|------------------------|-----------------|----------|-------------|--|--|
| | Beginning and Ending | | | | | Entitle-ment | Semitropic WSD Storage | Purchase Pool A | Transfer | MWD Ent. 1/ | | |
| | No. | Structure | Mile | | | | | | | | | |
| 31A | C-1 | Coastal Branch Control | 0.02 | | 23,200 | 6 | 1,719 | 0 | 0 | 0 | | |
| | | Las Perillas Pumping Plant | 1.16 | | 23,200 | | | | | | | |
| | C-2 | | 3.79 | Green Valley Water District | 0 | | | | | | | |
| | | Badger Hill Pumping Plant | 4.27 | | 24,828 | | | | | | | |
| | C-3 | Coastal Check No. 3 | 7.21 | | | | | | | | | |
| | C-4 | | 9.34 | Castaic Lake WA (Devil's Den WD #1) | 6 | | | | | | | |
| | | Coastal Check No. 4 | 9.34 | | | | | | | | | |
| | C-5 | Coastal Check No. 5 | 12.20 | | | | | | | | | |
| | C-6 | | 13.30 | Kern County Water Agency Berrenda Mesa - 3 | 1,719 | | | | | | | |
| | | | 14.83 | Kern County Water Agency Berrenda Mesa - DD | 0 | | | | | | | |
| | | | | Kern County Water Agency Berrenda Mesa - PO | 16,616 | | | | | | | |
| | | Devil's Den Pumping Plant | 14.86 | | 2,780 | | | | | | | |
| | | | | K.C.W.A. Reach 31A Subtotal: | 18,335 | 18,335 | 0 | 0 | 0 | 0 | | |
| | | | | K.C.W.A. Total: | 158,912 | 149,012 | 9,750 | 0 | 0 | 150 | | |
| 33A | C-7 | Bluestone Pumping Plant | 19.05 | | 2,824 | 2,403 | 423 | 0 | 0 | 0 | | |
| | C-8 | Polonio Pass Pumping Plant | 26.54 | | 2,867 | | | | | | | |
| | C-9 | Tank Site 1 | 27.81 | (CCWA) Polonio Pass Treatment Plant | | | | | | | | |
| | C-10 | Shandon T.O. | 38.23 | Santa Barbara County (CCWA) | 2,403 | | | | | | | |
| | | Tank Site 2 | 58.63 | Central Coast: | 0 | | | | | | | |
| 34 | C-11 | Chorro Valley T.O. | 69.31 | San Luis Obispo County (CCWA) | 423 | | | | | | | |
| | | Energy Dissipater | 78.12 | | | | | | | | | |
| | | Lopez T.O. | 85.86 | SLOCFC & WCD | 0 | 2,826 | 0 | 0 | 0 | 0 | | |
| 35 | C-12 | | | CCWA Total: | 2,826 | | | | | | | |
| | | Guadalupe T.O. | 102.70 | SBCFC & WCD | 0 | | | | | | | |
| | | Santa Maria T.O. | 107.43 | SBCFC & WCD | 0 | | | | | | | |
| 38 | | So. Cal. Water T.O. | 109.20 | SBCFC & WCD | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | SBCFC & WCD Total: | 0 | | | | | | | |
| | | Tank Site 5 | 115.42 | | | | | | | | | |

1/ Semitropic WSD is storing this water for MWD.

Table 24. Southern Field Division Plant Data

(in acre-feet)

July 1998

| Date | West Branch | | | | East Branch | | | | | | |
|-------|-------------------|-----------------------------|--------------------|----------|------------------|----------------------|------------------|---------------------------|--------------------------|--------------|------------------------------------|
| | Oso Pumping Plant | Warne Powerplant Generation | Castaic Powerplant | | Alamo Powerplant | | | Pearblossom Pumping Plant | Mojave Siphon Powerplant | | Devil Canyon Powerplant Generation |
| | | | Generation | Pumpback | Generation | Bypass Through Plant | Cottonwood Chute | | Generation | Bypass Flume | |
| 1 | 507 | 572 | 6,856 | 4,943 | 1,539 | 0 | 0 | 981 | 1,026 | 0 | 1,074 |
| 2 | 506 | 571 | 6,476 | 5,237 | 1,421 | 0 | 0 | 999 | 951 | 93 | 1,189 |
| 3 | 593 | 761 | 1,141 | 4,511 | 1,466 | 0 | 0 | 1,070 | 962 | 31 | 1,131 |
| 4 | 407 | 202 | 1,411 | 4,102 | 1,434 | 0 | 0 | 879 | 1,002 | 4 | 988 |
| 5 | 306 | 256 | 663 | 2,813 | 1,302 | 0 | 0 | 954 | 1,009 | 0 | 1,018 |
| 6 | 297 | 563 | 8,251 | 3,248 | 1,537 | 0 | 0 | 1,108 | 1,035 | 19 | 1,148 |
| 7 | 591 | 661 | 8,980 | 6,155 | 1,439 | 0 | 0 | 1,110 | 1,063 | 35 | 1,422 |
| 8 | 576 | 579 | 7,122 | 6,449 | 1,340 | 0 | 0 | 933 | 994 | 38 | 1,155 |
| 9 | 645 | 744 | 5,331 | 4,998 | 421 | 0 | 1,418 | 1,004 | 950 | 0 | 1,189 |
| 10 | 591 | 583 | 7,723 | 4,600 | 388 | 0 | 1,112 | 938 | 875 | 21 | 1,274 |
| 11 | 527 | 564 | 5,505 | 4,682 | 1,096 | 0 | 0 | 835 | 858 | 38 | 907 |
| 12 | 306 | 0 | 722 | 8,857 | 1,300 | 0 | 0 | 975 | 1,114 | 0 | 1,063 |
| 13 | 349 | 1,017 | 5,571 | 4,866 | 1,591 | 0 | 0 | 1,175 | 989 | 0 | 1,133 |
| 14 | 950 | 991 | 6,260 | 4,608 | 1,475 | 0 | 0 | 1,136 | 993 | 24 | 1,715 |
| 15 | 527 | 852 | 6,676 | 4,370 | 1,914 | 0 | 78 | 1,547 | 1,364 | 0 | 1,698 |
| 16 | 702 | 622 | 9,491 | 4,472 | 1,721 | 0 | 98 | 1,353 | 1,474 | 0 | 1,512 |
| 17 | 689 | 551 | 7,063 | 4,670 | 878 | 0 | 983 | 1,468 | 1,619 | 71 | 1,637 |
| 18 | 574 | 796 | 2,132 | 6,001 | 2,042 | 0 | 0 | 1,639 | 1,625 | 35 | 2,047 |
| 19 | 778 | 0 | 1,179 | 6,535 | 2,378 | 0 | 0 | 1,855 | 1,388 | 0 | 1,676 |
| 20 | 325 | 715 | 4,458 | 3,697 | 1,980 | 0 | 331 | 1,867 | 2,039 | 112 | 2,219 |
| 21 | 679 | 725 | 6,137 | 3,525 | 1,927 | 0 | 274 | 1,762 | 1,977 | 12 | 1,948 |
| 22 | 627 | 824 | 6,573 | 2,943 | 1,701 | 0 | 0 | 1,458 | 1,514 | 0 | 1,722 |
| 23 | 860 | 883 | 6,687 | 2,524 | 2,134 | 0 | 152 | 1,681 | 1,519 | 0 | 1,811 |
| 24 | 848 | 766 | 5,912 | 3,251 | 2,023 | 0 | 219 | 1,391 | 1,014 | 5 | 1,817 |
| 25 | 842 | 813 | 5,148 | 3,627 | 2,046 | 0 | 0 | 1,566 | 2,179 | 0 | 1,677 |
| 26 | 884 | 517 | 2,494 | 6,781 | 2,296 | 0 | 0 | 1,669 | 1,486 | 0 | 1,723 |
| 27 | 862 | 1,465 | 5,936 | 5,968 | 1,938 | 0 | 0 | 1,566 | 1,471 | 0 | 1,915 |
| 28 | 826 | 849 | 6,602 | 4,326 | 1,824 | 0 | 0 | 1,497 | 1,525 | 37 | 1,633 |
| 29 | 841 | 1,208 | 4,340 | 2,933 | 1,845 | 0 | 0 | 1,421 | 1,372 | 0 | 1,786 |
| 30 | 1,374 | 246 | 2,785 | 1,670 | 1,422 | 0 | 0 | 1,329 | 1,077 | 33 | 1,604 |
| 31 | 1,142 | 1,082 | 3,464 | 2,546 | 1,780 | 0 | 0 | 1,212 | 1,159 | 0 | 1,250 |
| Total | 20,531 | 20,978 | 159,089 | 139,908 | 49,598 | 0 | 4,665 | 40,378 | 39,623 | 608 | 46,081 |

**Table 25. Pyramid Lake
Daily Operation**

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Inflow | | | Outflow | | | Computed Losses (-) Gains (+) | |
|--------|-----------------------------------|---------|----------------|-----------------------------|------------------|-------------|-------------------------------|-----------------------|---------------|-------------------------------|--------|
| | | | | Project | | Natural | Project | | Natural | | |
| | | | | Castaic Powerplant Pumpback | Warne Powerplant | Stream Flow | Castaic Powerplant Generation | Recreation Deliveries | To Piru Creek | | |
| Jun 30 | 2569.59 | 159,270 | | | | | | | | | |
| 1 | 2568.27 | 157,642 | -1,628 | 4,943 | 572 | 131 | 6,856 | 0 | 50 | -368 | |
| 2 | 2567.22 | 156,355 | -1,287 | 5,237 | 571 | 127 | 6,476 | 0 | 50 | -696 | |
| 3 | 2571.10 | 161,146 | 4,791 | 4,511 | 761 | 128 | 1,141 | 0 | 50 | 582 | |
| 4 | 2573.64 | 164,333 | 3,187 | 4,102 | 202 | 123 | 1,411 | 0 | 50 | 221 | |
| 5 | 2575.82 | 167,102 | 2,769 | 2,813 | 256 | 117 | 663 | 0 | 50 | 296 | |
| 6 | 2571.88 | 162,120 | -4,982 | 3,248 | 563 | 112 | 8,251 | 0 | 50 | -604 | |
| 7 | 2569.95 | 159,716 | -2,404 | 6,155 | 661 | 110 | 8,980 | 0 | 50 | -300 | |
| 8 | 2569.79 | 159,518 | -198 | 6,449 | 579 | 106 | 7,122 | 0 | 50 | -160 | |
| 9 | 2569.71 | 159,419 | -99 | 4,998 | 744 | 103 | 5,331 | 0 | 50 | -563 | |
| 10 | 2568.09 | 157,421 | -1,998 | 4,600 | 583 | 103 | 7,723 | 0 | 50 | 489 | |
| 11 | 2567.16 | 156,281 | -1,140 | 4,682 | 564 | 98 | 5,505 | 0 | 50 | -929 | |
| 12 | 2574.51 | 165,435 | 9,154 | 8,857 | 0 | 94 | 722 | 0 | 50 | 975 | |
| 13 | 2574.60 | 165,549 | 114 | 4,866 | 1,017 | 92 | 5,571 | 0 | 50 | -240 | |
| 14 | 2573.57 | 164,245 | -1,304 | 4,608 | 991 | 87 | 6,260 | 0 | 50 | -680 | |
| 15 | 2572.48 | 162,873 | -1,372 | 4,370 | 852 | 85 | 6,676 | 0 | 50 | 47 | |
| 16 | 2568.47 | 157,888 | -4,985 | 4,472 | 622 | 83 | 9,491 | 0 | 50 | -621 | |
| 17 | 2565.81 | 154,636 | -3,252 | 4,670 | 551 | 79 | 7,063 | 0 | 50 | -1,439 | |
| 18 | 2570.68 | 160,623 | 5,987 | 6,001 | 796 | 77 | 2,132 | 0 | 50 | 1,295 | |
| 19 | 2574.81 | 165,815 | 5,192 | 6,535 | 0 | 76 | 1,179 | 0 | 50 | -190 | |
| 20 | 2574.83 | 165,841 | 26 | 3,697 | 715 | 78 | 4,458 | 0 | 50 | 44 | |
| 21 | 2573.51 | 164,169 | -1,672 | 3,525 | 725 | 76 | 6,137 | 0 | 50 | 189 | |
| 22 | 2571.15 | 161,208 | -2,961 | 2,943 | 824 | 76 | 6,573 | 0 | 50 | -181 | |
| 23 | 2568.64 | 158,097 | -3,111 | 2,524 | 883 | 76 | 6,687 | 0 | 50 | 143 | |
| 24 | 2567.35 | 156,514 | -1,583 | 3,251 | 766 | 73 | 5,912 | 0 | 50 | 289 | |
| 25 | 2566.83 | 155,878 | -636 | 3,627 | 813 | 69 | 5,148 | 0 | 50 | 53 | |
| 26 | 2570.88 | 160,872 | 4,994 | 6,781 | 517 | 64 | 2,494 | 0 | 50 | 176 | |
| 27 | 2571.92 | 162,170 | 1,298 | 5,968 | 1,465 | 64 | 5,936 | 0 | 50 | -213 | |
| 28 | 2570.77 | 160,735 | -1,435 | 4,326 | 849 | 62 | 6,602 | 0 | 50 | -20 | |
| 29 | 2570.63 | 160,560 | -175 | 2,933 | 1,208 | 57 | 4,340 | 0 | 50 | 17 | |
| 30 | 2569.41 | 159,048 | -1,512 | 1,670 | 246 | 58 | 2,785 | 0 | 50 | -651 | |
| 31 | 2569.37 | 158,998 | -50 | 2,546 | 1,082 | 58 | 3,464 | 0 | 48 | -224 | |
| Total | | | | -272 | 139,908 | 20,978 | 2,742 | 159,089 | 0 | 1,548 | -3,263 |

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Inflow | | Outflow | | | Computed Losses (-) Gains (+) | |
|--------|-----------------------------------|---------|----------------|-------------------------------|---------|-----------------------------|-----------------|---------|----------------------------------|--|
| | | | | Castaic Powerplant Generation | Natural | Castaic Powerplant Pumpback | To Castaic Lake | | | |
| | | | | | | | Natural | Project | | |
| Jun 30 | 1526.58 | 26,121 | | | | | | | | |
| 1 | 1531.21 | 28,244 | 2,123 | 6,856 | 44 | 4,943 | 44 | 0 | 210 | |
| 2 | 1534.35 | 29,728 | 1,484 | 6,476 | 43 | 5,237 | 43 | 0 | 245 | |
| 3 | 1526.79 | 26,215 | -3,513 | 1,141 | 40 | 4,511 | 40 | 0 | -143 | |
| 4 | 1517.06 | 22,005 | -4,210 | 1,411 | 39 | 4,102 | 39 | 1,412 | -107 | |
| 5 | 1511.56 | 19,789 | -2,216 | 663 | 40 | 2,813 | 40 | 0 | -66 | |
| 6 | 1517.24 | 22,038 | 2,249 | 8,251 | 36 | 3,248 | 36 | 2,718 | -36 | |
| 7 | 1524.23 | 25,075 | 3,037 | 8,980 | 36 | 6,155 | 36 | 0 | 212 | |
| 8 | 1521.74 | 23,987 | -1,088 | 7,122 | 35 | 6,449 | 35 | 1,746 | -15 | |
| 9 | 1522.53 | 24,330 | 343 | 5,331 | 34 | 4,998 | 34 | 0 | 10 | |
| 10 | 1529.99 | 27,677 | 3,347 | 7,723 | 35 | 4,600 | 35 | 0 | 224 | |
| 11 | 1531.99 | 28,610 | 933 | 5,505 | 34 | 4,682 | 34 | 0 | 110 | |
| 12 | 1513.33 | 20,488 | -8,122 | 722 | 33 | 8,857 | 33 | 0 | 13 | |
| 13 | 1515.00 | 21,161 | 673 | 5,571 | 32 | 4,866 | 32 | 0 | -32 | |
| 14 | 1519.15 | 22,880 | 1,719 | 6,260 | 31 | 4,608 | 31 | 0 | 67 | |
| 15 | 1518.71 | 22,694 | -186 | 6,676 | 28 | 4,370 | 28 | 2,294 | -198 | |
| 16 | 1525.35 | 25,571 | 2,877 | 9,491 | 25 | 4,472 | 25 | 2,173 | 31 | |
| 17 | 1531.84 | 28,539 | 2,968 | 7,063 | 23 | 4,670 | 23 | 0 | 575 | |
| 18 | 1522.83 | 24,461 | -4,078 | 2,132 | 21 | 6,001 | 21 | 0 | -209 | |
| 19 | 1509.87 | 19,134 | -5,327 | 1,179 | 20 | 6,535 | 20 | 0 | 29 | |
| 20 | 1511.72 | 19,852 | 718 | 4,458 | 19 | 3,697 | 19 | 0 | -43 | |
| 21 | 1513.38 | 20,508 | 656 | 6,137 | 20 | 3,525 | 20 | 1,882 | -74 | |
| 22 | 1521.73 | 23,983 | 3,475 | 6,573 | 20 | 2,943 | 20 | 0 | -155 | |
| 23 | 1530.73 | 28,020 | 4,037 | 6,687 | 22 | 2,524 | 22 | 0 | -126 | |
| 24 | 1529.07 | 27,252 | -768 | 5,912 | 23 | 3,251 | 23 | 3,401 | -28 | |
| 25 | 1532.22 | 28,718 | 1,466 | 5,148 | 21 | 3,627 | 21 | 0 | -55 | |
| 26 | 1522.51 | 24,322 | -4,396 | 2,494 | 20 | 6,781 | 20 | 0 | -109 | |
| 27 | 1523.00 | 24,535 | 213 | 5,936 | 18 | 5,968 | 18 | 0 | 245 | |
| 28 | 1522.53 | 24,330 | -205 | 6,602 | 16 | 4,326 | 16 | 2,503 | 22 | |
| 29 | 1525.50 | 25,638 | 1,308 | 4,340 | 15 | 2,933 | 15 | 0 | -99 | |
| 30 | 1524.39 | 25,145 | -493 | 2,785 | 16 | 1,670 | 16 | 1,607 | -1 | |
| 31 | 1519.41 | 22,990 | -2,155 | 3,464 | 17 | 2,546 | 17 | 3,057 | -16 | |
| Total | | | | -3,131 | 159,089 | 856 | 139,908 | 856 | 22,793 | |
| | | | | | | | | | 481 | |

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Inflow | | | Outflow | | Computed Losses (-) Gains (+) | |
|--------|-----------------------------------|---------|----------------|-------------------------|---------|---------|------------|----------------------------|----------------------------------|------|
| | | | | From Elderberry Forebay | | Natural | Deliveries | Released To Castaic Lagoon | | |
| | | | | Natural | Project | | | | | |
| Jun 30 | 1512.10 | 317,255 | | | | | | | | |
| 1 | 1511.70 | 316,372 | -883 | 44 | 0 | 65 | 693 | 99 | -200 | |
| 2 | 1511.30 | 315,491 | -881 | 43 | 0 | 72 | 776 | 99 | -121 | |
| 3 | 1510.90 | 314,611 | -880 | 40 | 0 | 65 | 752 | 99 | -134 | |
| 4 | 1511.30 | 315,491 | 880 | 39 | 1,412 | 60 | 713 | 99 | 181 | |
| 5 | 1511.00 | 314,831 | -660 | 40 | 0 | 57 | 721 | 60 | 24 | |
| 6 | 1512.00 | 317,034 | 2,203 | 36 | 2,718 | 55 | 630 | 60 | 84 | |
| 7 | 1511.70 | 316,372 | -662 | 36 | 0 | 57 | 744 | 60 | 49 | |
| 8 | 1512.19 | 317,454 | 1,082 | 35 | 1,746 | 69 | 747 | 60 | 39 | |
| 9 | 1511.89 | 316,791 | -663 | 34 | 0 | 69 | 708 | 60 | 2 | |
| 10 | 1511.49 | 315,909 | -882 | 35 | 0 | 53 | 691 | 60 | -219 | |
| 11 | 1511.19 | 315,249 | -660 | 34 | 0 | 48 | 761 | 60 | 79 | |
| 12 | 1510.89 | 314,589 | -660 | 33 | 0 | 43 | 657 | 60 | -19 | |
| 13 | 1510.59 | 313,930 | -659 | 32 | 0 | 43 | 660 | 60 | -14 | |
| 14 | 1510.19 | 313,053 | -877 | 31 | 0 | 41 | 689 | 40 | -220 | |
| 15 | 1511.09 | 315,029 | 1,976 | 28 | 2,294 | 38 | 724 | 40 | 380 | |
| 16 | 1511.99 | 317,012 | 1,983 | 25 | 2,173 | 41 | 758 | 40 | 542 | |
| 17 | 1511.59 | 316,130 | -882 | 23 | 0 | 38 | 875 | 40 | -28 | |
| 18 | 1511.19 | 315,249 | -881 | 21 | 0 | 36 | 889 | 40 | -9 | |
| 19 | 1510.79 | 314,369 | -880 | 20 | 0 | 36 | 875 | 40 | -21 | |
| 20 | 1510.39 | 313,491 | -878 | 19 | 0 | 33 | 815 | 40 | -75 | |
| 21 | 1510.69 | 314,149 | 658 | 20 | 1,882 | 31 | 938 | 40 | -297 | |
| 22 | 1510.29 | 313,272 | -877 | 20 | 0 | 31 | 974 | 40 | 86 | |
| 23 | 1509.79 | 312,177 | -1,095 | 22 | 0 | 31 | 941 | 40 | -167 | |
| 24 | 1510.59 | 313,930 | 1,753 | 23 | 3,401 | 29 | 1,192 | 40 | -468 | |
| 25 | 1510.19 | 313,053 | -877 | 21 | 0 | 29 | 1,049 | 40 | 162 | |
| 26 | 1509.69 | 311,958 | -1,095 | 20 | 0 | 24 | 1,022 | 40 | -77 | |
| 27 | 1509.09 | 310,647 | -1,311 | 18 | 0 | 23 | 1,168 | 40 | -144 | |
| 28 | 1509.59 | 311,739 | 1,092 | 16 | 2,503 | 21 | 1,208 | 40 | -200 | |
| 29 | 1509.09 | 310,647 | -1,092 | 15 | 0 | 21 | 1,121 | 40 | 33 | |
| 30 | 1509.69 | 311,958 | 1,311 | 16 | 1,607 | 21 | 1,057 | 40 | 764 | |
| 31 | 1510.49 | 313,710 | 1,752 | 17 | 3,057 | 21 | 1,042 | 40 | -261 | |
| Total | | | | -3,545 | 856 | 22,793 | 1,301 | 26,590 | 1,646 | -259 |

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | Turnout | Total Diver- sions | Deliveries | | | | | | | |
|--------------|----------------------|-----------------------|---------|---|------------------|--------|-------|--------------------|------------|---------------|--|--|
| | Beginning and Ending | | | | Entitle- ment | Rec. | Local | Purchase Pool B | CLWA T1 | 14 B M & I | | |
| | Structure | Mile | | | | | | | | | | |
| 29A | 42 | Oso Pumping Plant | 1.49 | 20,531 | | | | | | | | |
| 29F | W2 | Quail Lake | 5.02 | Antelope Valley-East Kern Water Agency | Re-moved | | | | | | | |
| | | Quail Lake Embankment | 7.82 | Antelope Valley-East Kern Water Agency | Stub | | | | | | | |
| | | Warne Power Plant | 14.07 | | 20,978 | | | | | | | |
| 29H | W3 | Pyramid Lake | | Calif. State Park Pyramid Recreation | 0 | | | | | | | |
| | | Pyramid Dam | 17.10 | Piru Creek Fish Enhancement | 0 | | | | | | | |
| | | Castaic Power Plant | 25.82 | (139,908 AF pumpback) | 159,089 | | | | | | | |
| 29J | W4 | Elderberry Forebay | | | | | | | | | | |
| | | Forebay Dam | 28.12 | | | | | | | | | |
| | | | | | | | | | | | | |
| 30 1/ | W5 | Castaic Lake | | Calif. State Park Castaic Lake Recreation | 31 | | | | | | | |
| | | Dam | 31.47 | | | | | | | | | |
| | | Castaic Lake Outlet | 31.55 | MWD - 78" | 15,215 | | | | | | | |
| | | | | MWD - 132" | 10,090 | | | | | | | |
| | | | | CLWA - T1 | -1,848 | | | | | | | |
| | | | | Castaic Lake Water Agency | 1,254 | | | | | | | |
| | | | | United Water Conservation Dist. | 0 | | | | | | | |
| | | | | Ventura County FCD | Stub | | | | | | | |
| | | | | LA Co. Parks & Recreation | 0 | | | | | | | |
| | | | | Releases to Lagoon | 1,646 | | | | | | | |
| | | | | Reach 30 Subtotal: | 24,742 | 18,711 | 31 | 0 | 0 | 0 | | |
| | W6 | Castaic Lagoon | | Recreation to Lagoon | 143 | | | | | | | |
| | | Outlet | 31.87 | | 1,525 | | | | | | | |
| | | | | | | | | | | | | |

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

July 1998

| Date | Water Surface Elev. (in feet) | Storage Change | Inflow | | | Outflow | | | | | Computed Losses (-) Gains (+) | Las Flores Ranch Exchange 1/ | | |
|--------|----------------------------------|-------------------|---------------------------|---------------------|-----------------------|--------------------|------|-----------------------|---------------------|-------------------------|----------------------------------|------------------------------|-------|--|
| | | | Project | | Natural Stream Inflow | Project | | | Del. To Mojave W.A. | Natural To Mojave River | | | | |
| | | | Mojave Siphon Power-plant | Mojave Bypass Flume | | Delivered to CLAWA | Rec. | San Bernardino Tunnel | | | | | | |
| Jun 30 | 3352.36 | 72,417 | | | | | | | | | | | | |
| 1 | 3352.36 | 72,417 | 0 | 1,026 | 0 | 48 | 6 | 0 | 1,074 | 0 | 0 | 6 | 46 | |
| 2 | 3352.13 | 72,197 | -220 | 951 | 93 | 52 | 6 | 0 | 1,189 | 0 | 1 | -120 | 46 | |
| 3 | 3351.96 | 72,035 | -162 | 962 | 31 | 48 | 6 | 0 | 1,131 | 0 | 0 | -66 | 46 | |
| 4 | 3351.97 | 72,044 | 9 | 1,002 | 4 | 44 | 5 | 0 | 988 | 0 | 1 | -47 | 46 | |
| 5 | 3351.97 | 72,044 | 0 | 1,009 | 0 | 40 | 7 | 0 | 1,018 | 0 | 0 | -24 | 46 | |
| 6 | 3351.86 | 71,939 | -105 | 1,035 | 19 | 39 | 3 | 0 | 1,148 | 0 | 1 | -46 | 46 | |
| 7 | 3351.54 | 71,634 | -305 | 1,063 | 35 | 38 | 3 | 0 | 1,422 | 0 | 0 | -16 | 46 | |
| 8 | 3351.39 | 71,492 | -142 | 994 | 38 | 36 | 3 | 0 | 1,155 | 0 | 48 | -4 | 46 | |
| 9 | 3351.08 | 71,197 | -295 | 950 | 0 | 35 | 3 | 0 | 1,189 | 0 | 65 | -23 | 46 | |
| 10 | 3350.65 | 70,790 | -407 | 875 | 21 | 34 | 3 | 0 | 1,274 | 0 | 28 | -32 | 45 | |
| 11 | 3350.53 | 70,676 | -114 | 858 | 38 | 32 | 3 | 0 | 907 | 0 | 0 | -132 | 45 | |
| 12 | 3350.66 | 70,799 | 123 | 1,114 | 0 | 29 | 3 | 0 | 1,063 | 0 | 1 | 47 | 45 | |
| 13 | 3350.48 | 70,629 | -170 | 989 | 0 | 28 | 3 | 0 | 1,133 | 0 | 0 | -51 | 45 | |
| 14 | 3349.67 | 69,866 | -763 | 993 | 24 | 25 | 4 | 0 | 1,715 | 0 | 1 | -85 | 42 | |
| 15 | 3349.36 | 69,575 | -291 | 1,364 | 0 | 24 | 3 | 0 | 1,698 | 0 | 1 | 23 | 46 | |
| 16 | 3349.30 | 69,519 | -56 | 1,474 | 0 | 23 | 3 | 0 | 1,512 | 0 | 0 | -38 | 46 | |
| 17 | 3349.37 | 69,585 | 66 | 1,619 | 71 | 22 | 3 | 1 | 1,637 | 0 | 0 | -5 | 46 | |
| 18 | 3348.99 | 69,229 | -356 | 1,625 | 35 | 21 | 3 | 1 | 2,047 | 0 | 0 | 14 | 42 | |
| 19 | 3348.69 | 68,949 | -280 | 1,388 | 0 | 21 | 3 | 1 | 1,676 | 0 | 1 | -8 | 45 | |
| 20 | 3348.58 | 68,847 | -102 | 2,039 | 112 | 21 | 4 | 1 | 2,219 | 0 | 0 | -50 | 45 | |
| 21 | 3348.57 | 68,837 | -10 | 1,977 | 12 | 20 | 3 | 1 | 1,948 | 0 | 0 | -67 | 45 | |
| 22 | 3348.31 | 68,595 | -242 | 1,514 | 0 | 21 | 3 | 1 | 1,722 | 0 | 0 | -51 | 45 | |
| 23 | 3348.05 | 68,354 | -241 | 1,519 | 0 | 20 | 3 | 1 | 1,811 | 0 | 1 | 36 | 45 | |
| 24 | 3347.17 | 67,540 | -814 | 1,014 | 5 | 19 | 3 | 1 | 1,817 | 0 | 0 | -31 | 45 | |
| 25 | 3347.70 | 68,029 | 489 | 2,179 | 0 | 17 | 2 | 0 | 1,677 | 0 | 0 | -28 | 45 | |
| 26 | 3347.43 | 67,780 | -249 | 1,486 | 0 | 17 | 0 | 0 | 1,723 | 0 | 0 | -29 | 45 | |
| 27 | 3346.99 | 67,374 | -406 | 1,471 | 0 | 15 | 0 | 0 | 1,915 | 0 | 0 | 23 | 44 | |
| 28 | 3346.87 | 67,263 | -111 | 1,525 | 37 | 14 | 3 | 1 | 1,633 | 0 | 0 | -50 | 44 | |
| 29 | 3346.37 | 66,804 | -459 | 1,372 | 0 | 13 | 3 | 1 | 1,786 | 0 | 1 | -53 | 44 | |
| 30 | 3345.84 | 66,319 | -485 | 1,077 | 33 | 12 | 3 | 1 | 1,604 | 0 | 0 | 1 | 44 | |
| 31 | 3345.62 | 66,118 | -201 | 1,159 | 0 | 11 | 3 | 1 | 1,250 | 0 | 1 | -116 | 44 | |
| Total | | | -6,299 | 39,623 | 608 | 839 | 103 | 12 | 46,081 | 0 | 151 | -1,022 | 1,396 | |

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

July 1998

| Date | Water Surface Elevation (in feet) | Storage | Storage Change | Inflow 1/ | Outflow 2/ | Computed Losses (-) Gains (+) 1/ |
|--------------|-----------------------------------|---------|----------------|--------------|---------------|--|
| Jun 30 | 1587.17 | 124,944 | | | | |
| 1 | 1587.17 | 124,944 | 0 | | 10 | |
| 2 | 1587.15 | 124,898 | -46 | | 10 | |
| 3 | 1587.13 | 124,852 | -46 | | 11 | |
| 4 | 1587.12 | 124,829 | -23 | | 11 | |
| 5 | 1587.15 | 124,898 | 69 | | 10 | |
| 6 | 1587.25 | 125,126 | 228 | | 10 | |
| 7 | 1587.28 | 125,195 | 69 | | 10 | |
| 8 | 1587.33 | 125,309 | 114 | | 10 | |
| 9 | 1587.33 | 125,309 | 0 | | 10 | |
| 10 | 1587.32 | 125,286 | -23 | | 10 | |
| 11 | 1587.32 | 125,286 | 0 | | 11 | |
| 12 | 1587.29 | 125,217 | -69 | | 10 | |
| 13 | 1587.28 | 125,195 | -22 | | 11 | |
| 14 | 1587.30 | 125,240 | 45 | | 6 | |
| 15 | 1587.33 | 125,309 | 69 | | 11 | |
| 16 | 1587.34 | 125,332 | 23 | | 10 | |
| 17 | 1587.36 | 125,377 | 45 | | 159 | |
| 18 | 1587.33 | 125,309 | -68 | | 605 | |
| 19 | 1587.32 | 125,286 | -23 | | 606 | |
| 20 | 1587.34 | 125,332 | 46 | | 330 | |
| 21 | 1587.34 | 125,332 | 0 | | 330 | |
| 22 | 1587.34 | 125,332 | 0 | | 437 | |
| 23 | 1587.37 | 125,400 | 68 | | 310 | |
| 24 | 1587.37 | 125,400 | 0 | | 331 | |
| 25 | 1587.37 | 125,400 | 0 | | 605 | |
| 26 | 1587.36 | 125,377 | -23 | | 706 | |
| 27 | 1587.33 | 125,309 | -68 | | 456 | |
| 28 | 1587.33 | 125,309 | 0 | | 308 | |
| 29 | 1587.29 | 125,217 | -92 | | 328 | |
| 30 | 1587.23 | 125,081 | -136 | | 357 | |
| 31 | 1587.12 | 124,829 | -252 | | 294 | |
| Total | | | -115 | 7,290 | 6,323 | -1,082 |

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | Turnout | Total Diversions | Deliveries | | | | | |
|-----------|----------------------|-------------------------|---|---|--------------|-------|----------|-----------------|--------------------|--|
| | Beginning and Ending | | | | Entitle-ment | Rec. | Transfer | Purchase Pool B | Transfer Local Out | |
| | No. | Structure | Mile | | | | | | | |
| 17E | 40 | Edmonston Pumping Plant | 293.45 | | 74,998 | 421 | | | | |
| | 41 | | 298.65 | Kern County Water Agency Tej.-Cas | Stub | | | | | |
| 17F | | Check No. 41 | 303.41 | | | | | | | |
| 18A | 42 | Check No. 42 | 304.99 | | | | | | | |
| 19 | 43 | Alamo Powerplant | 305.73 | (Does not include 4,665 AF flow down Cottonwood Chute) | 49,598 | 86 | 175 | 4,449 | 0 | |
| | | | 308.05 | Antelope Valley-East Kern WA | 421 | | | | | |
| | | Check No. 43 | 309.70 | | | | | | | |
| | 44 | | 311.84 | LADWP Connection | 0 | | | | | |
| | | | 313.50 | AVEK 245th Street West | 0 | | | | | |
| | 45 | Check No. 44 | 314.81 | | | | | | | |
| | | | 314.93 | AVEK 235th Street West | 86 | | | | | |
| | 46 | | 315.57 | AVEK 225th Street West | 0 | | | | | |
| | | Check No. 45 | 319.74 | | | | | | | |
| | | | 323.19 | Antelope Valley-East Kern WA Fairmont | 4,624 | | | | | |
| | | Check No. 46 | 323.84 | | | | | | | |
| | | | | Reach 19 Total: | 4,710 | | | | | |
| 20A | 47 | Check No. 47 | 326.77 | | | 3,760 | 1,195 | 91 | 176 | |
| | 48 | | 326.91 | Antelope Valley-East Kern WA Willow Springs Siphon | 62 | | | | | |
| | | | 329.65 | Antelope Valley-East Kern WA 120th Street West | Removed | | | | | |
| | | Check No. 48 | 330.82 | | | | | | | |
| | 49 | Check No. 49 | 335.93 | | | | | | | |
| | 50 | | 336.73 | AVEK WA - Quartz Hill (Wheeled for Palmdale WD) | 39 | | | | | |
| 20B | | | | Antelope Valley-East Kern WA | 3,760 | | | | | |
| 51 | Check No. 51 | 342.07 | | | | | | | | |
| 52 | | 342.80 | Antelope Valley-East Kern WA 30th Street West | Not in Use | | | | | | |
| | Check No. 52 | 343.74 | | | | | | | | |
| 53 | | 346.98 | PWD Palmdale | 1,195 | | | | | | |
| | | 348.14 | Antelope Valley-East Kern WA Acton Treatment Plant | 0 | | | | | | |
| | Check No. 53 | 348.17 | | | | | | | | |
| 21 | 54 | Check No. 54 | 350.25 | | | | | | | |
| | 55 | Check No. 55 | 352.70 | | | | | | | |
| | 56 | Check No. 56 | 354.76 | | | | | | | |
| | 57 | | 354.97 | Littlerock Creek I.D. | 91 | | | | | |
| 22A | | Check No. 57 | 356.93 | | | | | | | |
| 22B | 58 | | 357.72 | Antelope Valley-East Kern WA 96th Street East | 176 | | | | | |
| | | | 359.82 | Antelope Valley-East Kern WA East Side Treatment Plant | 554 | | | | | |

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

July 1998

| Reach No. | Operating Pool | | | Turnout | Total Diversions | Deliveries | | | | | | | |
|-----------|--|---------------------------|--------|---|------------------|--------------|--------|----------|-----------------|--------|------------|--|--|
| | Beginning and Ending | | | | | Entitle-ment | Rec. | Transfer | Purchase Pool B | Local | 14 B M & I | | |
| | No. | Structure | Mile | | | | | | | | | | |
| 22B | 58 | Pearblossom Pumping Plant | 360.61 | | 40,378 | 195 | 195 | 195 | 195 | 195 | 195 | | |
| | 59 | Check No. 59 | 366.09 | | | | | | | | | | |
| | 60 | Check No. 60 | 373.94 | | | | | | | | | | |
| | 61 | Check No. 61 | 379.00 | | | | | | | | | | |
| | 62 | Check No. 62 | 384.26 | | | | | | | | | | |
| | 63 | Check No. 63 | 389.50 | | | | | | | | | | |
| | 64 | Check No. 64 | 395.10 | | | | | | | | | | |
| | 65 | Check No. 65 | 400.32 | | | | | | | | | | |
| | 66 | | 401.10 | Mojave Water Agency | | | | | | | | | |
| | | | | Morongo 24" and 42" | 195 | | | | | | | | |
| 23 | Check No. 66 | | 403.41 | Mojave Water Agency | | 195 | 195 | 195 | 195 | 195 | 195 | | |
| | | | | Hesperia | 0 | | | | | | | | |
| 24 | Mojave Siphon Powerplant | | 405.48 | Las Flores Ranch | 1,396 | 1,396 | 1,396 | 1,396 | 1,396 | 1,396 | 1,396 | | |
| | | | | (Does not include 608 AF of bypass at Mojave Flume) | 39,623 | | | | | | | | |
| 25 | Silverwood Lake | | 407.65 | Crestline Lake Arrowhead Water Agency | 103 | 103 | 103 | 103 | 103 | 103 | 103 | | |
| | | | | Calif. State Park Silverwood Agency (Rec.) | 12 | | | | | | | | |
| 26A | San Bernardino Tunnel | | 411.46 | | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | | |
| | | | | San Gorgonio Pass Water Agency | 0 | | | | | | | | |
| 28G | Devil Canyon Powerplant | | 412.73 | | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | 46,081 | | |
| | | | | MWD-SC Rialto | 3,379 | | | | | | | | |
| 28H | Devil Canyon Afterbay Control Structures | | 412.88 | Desert Water Agency (MWD Wheeling Exchange) | 9,683 | 9,683 | 9,683 | 9,683 | 9,683 | 9,683 | 9,683 | | |
| | | | | San Gabriel Valley Water District | 1,100 | | | | | | | | |
| 28J | Lake Perris | | 442.00 | Coachella Valley WD (MWD Wheeling Exchange) | 12,891 | 12,891 | 12,891 | 12,891 | 12,891 | 12,891 | 12,891 | | |
| | | | | San Bernardino Valley Water District | 315 | | | | | | | | |
| 28G | Santa Ana Valley Pipeline | | 425.46 | MWD (SBVMWD Exchange) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | MWD-SC Box Springs | 8,511 | | | | | | | | |
| 28H | | | 433.06 | MWD-SC Perris Bypass Pipeline | 3,001 | 3,001 | 3,001 | 3,001 | 3,001 | 3,001 | 3,001 | | |
| | | | | MWD-SC 18" | 322 | | | | | | | | |
| 28J | | | 440.05 | MWD-SC 54" | 1,936 | 1,936 | 1,936 | 1,936 | 1,936 | 1,936 | 1,936 | | |
| | | | | MWD-SC 78" | 4,004 | | | | | | | | |
| 28G | | | 443.44 | Calif. State Park | | 4,004 | 4,004 | 4,004 | 4,004 | 4,004 | 4,004 | | |
| | | | | Lake Perris Recreation | 61 | | | | | | | | |
| 28H | | | 442.00 | MWD Total: | 67,184 | 67,184 | 67,184 | 67,184 | 67,184 | 67,184 | 67,184 | | |
| | | | | | | | | | | | | | |
| 28J | | | 443.44 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | 46,184 | 0 | 175 | 15,000 | 1,499 | 6,000 | | |

Table 32. Water Quality At Selected SWP Locations

July 1998

| Constituent | Units | Thermalito Afterbay At Outlet | North Bay Aqueduct Barker Slough Pumping Plant | Banks Pumping Plant | Delta Mendota Canal At McCabe Rd. | California Aqueduct | | | | Devil Canyon Afterbay Near San Bernardino |
|------------------------|-------|--|---|------------------------|--|--|---------------------------------|-------------------------------|-------------------------------------|--|
| | | | | | | O'Neill Forebay Outlet (Check 13) | Kettleman City (Check 21) | Near Hwy 119 (Check 29) | Tehachapi Afterbay (Check 41) | |
| Alkalinity | mg/l | 33 | 150 | 33 | 32 | 52 | 53 | 48 | 41 | 59 |
| Arsenic | mg/l | <0.001 | 0.004 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 |
| Boron | mg/l | <0.1 | 0.4 | NR | <0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Bromide | mg/l | NR | 0.07 | 0.04 | 0.04 | 0.13 | NR | NR | 0.07 | 0.03 |
| Calcium | mg/l | 7 | 25 | 9 | 9 | 14 | 14 | 12 | 12 | 14 |
| Carbon - Total Organic | mg/l | NR | 6 | 4 | NR | 3 | NR | NR | 4 | 4 |
| Chloride | mg/l | <1 | 25 | 12 | 13 | 43 | 40 | 29 | 22 | 12 |
| Chromium | mg/l | <0.005 | 0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Copper | mg/l | 0.001 | 0.005 | 0.011 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Fluoride | mg/l | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 |
| Hardness | mg/l | 27 | 151 | 38 | 36 | 67 | 65 | 57 | 52 | 54 |
| Iron | mg/l | <0.005 | <0.005 | 0.140 | 0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Lead | mg/l | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Magnesium | mg/l | 3 | 21 | 4 | 4 | 8 | 7 | 6 | 5 | 5 |
| Manganese | mg/l | <0.005 | 0.011 | 0.014 | 0.012 | <0.005 | <0.005 | <0.005 | <0.005 | 0.017 |
| Nitrate + Nitrite | mg/l | <0.01 | 0.54 | 0.39 | NR | NR | NR | NR | NR | 0.12 |
| Phosphorus-Ortho | mg/l | <0.01 | 0.14 | 0.07 | NR | 0.09 | NR | NR | 0.08 | 0.04 |
| Phosphorus-Total | mg/l | 0.01 | 0.24 | 0.16 | NR | 0.15 | NR | NR | 0.20 | 0.06 |
| Selenium | mg/l | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Sodium | mg/l | 3 | 38 | 13 | 13 | 33 | 31 | 25 | 19 | 17 |
| Specific Conductance | µS/cm | 69 | 457 | 148 | 145 | 312 | 298 | 244 | 205 | 192 |
| Sulfate | mg/l | 1 | 45 | 16 | 15 | 27 | 26 | 22 | 20 | 16 |
| Total Dissolved Solids | mg/l | 38 | 249 | 85 | 77 | 180 | 162 | 124 | 114 | 100 |
| Trihalomethane | | | | | | | | | | |
| Formation Potential | µg/l | NR | 849.792 | 356.408 | 410.432 | 450.676 | NR | 415.464 | 485.202 | 420 |
| Turbidity | NTU | 6 | 49 | 28 | 52 | 22 | 69 | 76 | 140 | NR |
| Zinc | mg/l | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

July 1998

| Date | Tides (feet above mean sea level) | | Flow In CFS | | Electrical Conductivity in millSiemens/cm | | | | | | | | | Cl in mg/l | |
|------|--------------------------------------|--------------------|----------------------------|--------|---|---------|-------------------|---------|------|-----------------|------|------------------|-----------------|---------------------------|------------------------------------|
| | (Antioch) Daily Mean | | Net Delta Outflow Index | | Rio Vista | Antioch | Chippis Island | Emmaton | | Jersey Point | | Clifton Court | Cache Slough | Delta Mendota Canal | Contra Costa Canal Intake |
| | Mean Daily | Monthly Average | md | md | | | | md | 14dm | md | 14dm | | | | |
| | Hi | Half | | | | | | | | | | | | | md |
| 1 | 2.86 | 1.18 | 51,000 | 51,000 | 31,537 | 0.12 | NC | 0.13 | 0.13 | 0.10 | 0.11 | 0.04 | 1.00 | 0.16 | 23 |
| 2 | 2.86e | 1.17 | 48,670 | 49,835 | 28,917 | 0.13 | NC | 0.13 | 0.13 | 0.10 | 0.11 | 0.04 | 1.00 | 0.16 | 24 |
| 3 | 3.00e | 1.21 | 44,905 | 48,192 | 28,945 | 0.12 | NC | 0.13 | 0.13 | NC | 0.11 | 0.06 | 0.98 | 0.16 | 25 |
| 4 | 3.21 | 1.38 | 44,370 | 47,236 | 28,051 | 0.13 | NC | 0.13 | 0.13 | NC | 0.11 | 0.06 | 1.00 | 0.16 | 26 |
| 5 | 3.44 | 1.52 | 42,726 | 46,334 | 27,175 | 0.12 | NC | 0.13 | 0.13 | NC | 0.11 | 0.06 | 0.99 | 0.17 | 24 |
| 6 | 3.62 | 1.60 | 41,029 | 45,450 | 26,758 | 0.12 | NC | 0.13 | 0.13 | NC | NC | 0.07 | 0.97 | 0.17 | 24 |
| 7 | 3.67 | 1.61 | 42,037 | 44,962 | 26,173 | 0.13 | NC | 0.13 | 0.13 | NC | NC | 0.07 | 0.94 | 0.18 | 24 |
| 8 | 3.83 | 1.79 | 43,594 | 44,791 | 24,625 | 0.12 | NC | 0.12 | 0.13 | NC | NC | 0.06 | 0.94 | 0.17 | 25 |
| 9 | 4.05 | 1.87 | 41,102 | 44,381 | 24,251 | 0.12 | NC | 0.13 | 0.13 | NC | NC | 0.06 | 0.95 | 0.17 | 24 |
| 10 | 4.02 | 1.78 | 38,061 | 43,749 | 23,807 | 0.11 | NC | 0.13 | 0.13 | NC | NC | 0.05 | 0.94 | 0.16 | 24 |
| 11 | 3.74 | 1.56 | 37,293 | 43,162 | 23,148 | NC | NC | 0.13 | 0.13 | 0.10 | NC | 0.05 | 0.97 | 0.16 | 25 |
| 12 | 3.47 | 1.47 | 37,515 | 42,692 | 22,216 | 0.12e | NC | 0.13 | 0.13 | 0.10 | NC | 0.04 | 0.93 | 0.15 | 25 |
| 13 | 3.33 | 1.56 | 40,486 | 42,522 | 21,413 | 0.11 | NC | 0.13 | 0.13 | 0.10 | NC | 0.03 | 0.89 | 0.14 | 24 |
| 14 | 3.06 | 1.51 | 39,237 | 42,288 | 21,172 | 0.12 | NC | 0.14 | 0.13 | 0.10 | NC | 0.03 | 0.83 | 0.14 | 25 |
| 15 | 3.02 | 1.27 | 34,250 | 41,752 | 20,671 | 0.12 | NC | 0.14 | 0.13 | 0.10 | NC | 0.05 | 0.85 | 0.14 | 26 |
| 16 | 3.39 | 1.32 | 32,009 | 41,143 | 20,038 | 0.13 | NC | 0.14 | 0.13 | 0.10 | NC | 0.05 | 0.89 | 0.15 | 26 |
| 17 | 3.63 | 1.47 | 30,037 | 40,489 | 16,576 | 0.13 | NC | 0.14 | 0.13 | 0.10 | NC | 0.06 | 0.88 | 0.15 | 25 |
| 18 | 3.63 | 1.44 | 30,519 | 39,936 | 14,216 | 0.13 | NC | 0.14 | 0.13 | 0.10 | NC | 0.06 | 0.91 | 0.16 | 24 |
| 19 | 3.79 | 1.59 | 28,480 | 39,333 | 14,108 | 0.13 | 0.13 | 0.14 | 0.13 | 0.10 | NC | 0.07 | 0.97 | 0.16 | 22 |
| 20 | 4.09 | 1.85 | 27,488 | 38,740 | 14,064 | 0.14 | 0.21 | 0.14 | 0.13 | 0.10 | NC | 0.09 | 1.00 | 0.18 | 22 |
| 21 | 4.19 | 1.81 | 25,772 | 38,123 | 14,331 | 0.14 | 0.25 | 0.14 | 0.14 | 0.10 | 0.10 | 0.09 | 1.03 | 0.20 | 22 |
| 22 | 4.07 | 1.79 | 26,728 | 37,605 | 13,985 | 0.14 | 0.23 | 0.14 | 0.14 | 0.10 | 0.10 | 0.10 | 1.01 | 0.20 | 21 |
| 23 | 4.12 | 1.87 | 25,580 | 37,082 | 13,974 | 0.13 | 0.20 | 0.14 | 0.14 | 0.10 | 0.10 | 0.10 | 0.99 | 0.21 | 20 |
| 24 | 4.12 | 1.87 | 24,942 | 36,576 | 13,831 | 0.14 | 0.16 | 0.14 | 0.14 | 0.10 | 0.10 | 0.11 | 0.96 | 0.22 | 20 |
| 25 | 3.86 | 1.80e | 24,465 | 36,092 | 14,118 | 0.14 | 0.16 | 0.14 | 0.14 | 0.10 | 0.10 | 0.11 | 0.96 | 0.22 | 20 |
| 26 | 3.63 | 1.72e | 21,771 | 35,541 | 14,080 | 0.14 | 0.14 | 0.14 | 0.14 | 0.10 | 0.10 | 0.11 | 0.99 | 0.22 | 19 |
| 27 | 3.30 | 1.61e | 23,477 | 35,094 | 14,387 | NC | NC | 0.14 | 0.14 | 0.10 | 0.10 | 0.12 | 1.01 | 0.23 | 18 |
| 28 | 2.99 | 1.49e | 23,732 | 34,688 | 14,371 | NC | NC | 0.15 | 0.14 | 0.10 | 0.10 | 0.13 | 1.05 | 0.26 | 17 |
| 29 | 2.97 | 1.38 | 22,482 | 34,267 | 14,455 | 0.14 | NC | 0.14 | 0.14 | 0.10 | 0.10 | 0.10 | 1.10 | 0.28 | 18 |
| 30 | 2.98 | 1.33 | 22,492 | 33,875 | 13,981 | 0.14 | NC | 0.14 | 0.14 | 0.10 | 0.10 | 0.11 | 1.14 | 0.27 | 18 |
| 31 | 2.92 | 1.22 | 21,298 | 33,469 | 14,339 | 0.13 | 0.13 | 0.15 | 0.14 | 0.10 | 0.10 | 0.11 | 1.15 | 0.26 | 16 |

Clifton Court Cl(mg/l)=200X EC - 25

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns

sdm = Daily Mean

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

July 1998

| Sampling Location | Sample Date 1/ | Chemical Detected | Concentration µg/l 2/ |
|--|-------------------|-------------------|-----------------------------|
| North Bay Aqueduct At Barker Slough Pumping Plant | June-15-1998 | None Detected | |
| California Aqueduct At Banks Pumping Plant | June-15-1998 | None Detected | |
| Delta Mendota Canal At McCabe Road | June-15-1998 | None Detected | |
| California Aqueduct Near Kettleman City (Check 21) | June-15-1998 | None Detected | |
| California Aqueduct At Tehachapi Afterbay (Check 41) | June-15-1998 | None Detected | |
| Devil Canyon Power Plant At Entrance To Santa Ana Pipeline | June-15-1998 | MTBE | 2.40 |

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

July 1998

| Date | Oroville Thermalito Complex | | Barker Slough | Cordelia | Banks Pumping Plant | | South Bay | Del Valle |
|-------|--------------------------------|--------|---------------|---------------|---------------------|------------|---------------|--------------------|
| | | | Pumping Plant | Pumping Plant | Total Load | SWP Load | Pumping Plant | Pumping Plant Load |
| | Generation | Load | Load | Load | Load | Load | Load | Load |
| 1 | 15,893,568 | 0 | 31,290 | 21,714 | 2,175,360 | 2,175,360 | 401,495 | 218 |
| 2 | 14,864,832 | 0 | 31,115 | 23,863 | 2,360,640 | 2,360,640 | 398,685 | 250 |
| 3 | 15,489,792 | 0 | 32,046 | 24,290 | 2,155,584 | 2,155,584 | 385,155 | 241 |
| 4 | 12,052,512 | 0 | 33,271 | 24,199 | 1,893,504 | 1,893,504 | 370,830 | 221 |
| 5 | 10,846,656 | 0 | 31,115 | 22,799 | 1,544,448 | 1,544,448 | 374,225 | 219 |
| 6 | 12,034,944 | 0 | 32,620 | 22,099 | 1,336,320 | 1,336,320 | 381,140 | 214 |
| 7 | 14,109,120 | 0 | 32,501 | 22,834 | 875,520 | 875,520 | 411,815 | 206 |
| 8 | 10,646,496 | 0 | 34,720 | 25,515 | 433,728 | 433,728 | 430,390 | 239 |
| 9 | 10,184,832 | 0 | 34,951 | 25,459 | 1,251,840 | 1,251,840 | 439,435 | 220 |
| 10 | 11,271,456 | 0 | 30,674 | 21,448 | 2,336,064 | 2,336,064 | 421,290 | 231 |
| 11 | 6,135,840 | 288 | 32,249 | 22,743 | 2,371,200 | 2,371,200 | 407,730 | 218 |
| 12 | 8,848,512 | 0 | 34,321 | 23,121 | 1,886,400 | 1,886,400 | 384,880 | 202 |
| 13 | 8,444,160 | 0 | 38,311 | 25,676 | 320,640 | 320,640 | 399,490 | 223 |
| 14 | 10,620,576 | 288 | 36,043 | 24,255 | 317,184 | 317,184 | 384,810 | 230 |
| 15 | 13,419,360 | 0 | 33,418 | 26,173 | 1,904,640 | 1,904,640 | 387,315 | 228 |
| 16 | 12,893,760 | 576 | 38,290 | 28,924 | 2,260,608 | 2,260,608 | 399,065 | 244 |
| 17 | 11,976,192 | 0 | 39,830 | 28,749 | 2,332,032 | 2,332,032 | 400,880 | 247 |
| 18 | 7,269,984 | 0 | 36,827 | 25,382 | 2,290,176 | 2,290,176 | 398,175 | 210 |
| 19 | 6,734,304 | 0 | 41,293 | 29,757 | 2,475,648 | 2,475,648 | 391,745 | 192 |
| 20 | 9,554,112 | 0 | 32,249 | 22,960 | 2,557,632 | 2,557,632 | 394,475 | 223 |
| 21 | 11,199,168 | 0 | 39,851 | 29,792 | 2,666,880 | 2,666,880 | 399,525 | 214 |
| 22 | 11,443,680 | 288 | 36,414 | 29,379 | 1,978,944 | 1,978,944 | 399,770 | 210 |
| 23 | 11,271,456 | 0 | 39,256 | 31,360 | 2,115,072 | 2,115,072 | 400,400 | 209 |
| 24 | 11,256,192 | 1,728 | 35,427 | 24,283 | 2,120,640 | 2,120,640 | 411,325 | 222 |
| 25 | 9,389,952 | 3,168 | 36,120 | 24,885 | 2,120,640 | 2,120,640 | 401,215 | 237 |
| 26 | 9,821,088 | 288 | 37,639 | 26,817 | 3,617,856 | 3,617,856 | 401,660 | 273 |
| 27 | 12,616,128 | 2,880 | 38,626 | 27,342 | 2,096,832 | 2,096,832 | 400,185 | 264 |
| 28 | 11,159,424 | 0 | 35,945 | 25,172 | 2,094,336 | 2,094,336 | 400,485 | 226 |
| 29 | 10,318,464 | 864 | 30,891 | 22,729 | 1,950,528 | 1,950,528 | 398,030 | 195 |
| 30 | 12,021,696 | 0 | 36,477 | 26,446 | 2,174,208 | 2,174,208 | 390,885 | 204 |
| 31 | 9,843,552 | 288 | 31,164 | 21,973 | 2,108,736 | 2,108,736 | 393,055 | 237 |
| Total | 343,631,808 | 10,656 | 1,084,944 | 782,138 | 60,123,840 | 60,123,840 | 12,359,560 | 6,967 |

Table 36. San Luis Field Division Energy Data

July 1998

(in kWh)

| Date | Dos Amigos Pumping Plant | | Gianelli Pumping-Generating Plant | | | |
|-------|--------------------------|-------------|-----------------------------------|-------------------|------------|-------------|
| | Total Load | SWP Load 1/ | Total Generation | SWP Generation 1/ | Total Load | SWP Load 1/ |
| 1 | 2,066,256 | 1,016,256 | 736,416 | -13,584 | 15,840 | 15,840 |
| 2 | 1,990,512 | 940,512 | 734,112 | -15,888 | 15,840 | 15,840 |
| 3 | 2,022,624 | 807,624 | 724,032 | -25,968 | 15,264 | 15,264 |
| 4 | 2,115,360 | 828,360 | 1,739,232 | -60,768 | 9,504 | 9,504 |
| 5 | 1,780,416 | 493,416 | 291,168 | -8,832 | 14,112 | 14,112 |
| 6 | 1,757,088 | 356,088 | 1,740,672 | -59,328 | 10,080 | 10,080 |
| 7 | 2,036,016 | 635,016 | 2,368,512 | 623,512 | 106,560 | 106,560 |
| 8 | 2,086,560 | 685,560 | 1,742,400 | 122,400 | 517,248 | 517,248 |
| 9 | 2,379,456 | 978,456 | 1,750,752 | 10,752 | 211,104 | 211,104 |
| 10 | 2,410,848 | 1,009,848 | 1,738,656 | -25,344 | 361,152 | 361,152 |
| 11 | 2,120,400 | 719,400 | 1,821,888 | -2,112 | 8,928 | 8,928 |
| 12 | 2,046,672 | 489,672 | 995,040 | 275,040 | 260,640 | 260,640 |
| 13 | 2,080,656 | 523,656 | 2,748,672 | 1,068,672 | 591,552 | 591,552 |
| 14 | 2,308,896 | 751,896 | 3,089,088 | 1,361,088 | 312,192 | 312,192 |
| 15 | 2,143,728 | 790,728 | 1,126,656 | 421,656 | 245,376 | 245,376 |
| 16 | 2,243,088 | 947,088 | 1,410,048 | 282,048 | 17,280 | 17,280 |
| 17 | 2,312,496 | 1,097,496 | 780,192 | -18,808 | 298,368 | 298,368 |
| 18 | 2,372,112 | 1,157,112 | 1,328,832 | 529,832 | 16,128 | 16,128 |
| 19 | 2,440,944 | 1,225,944 | 788,832 | -10,168 | 530,784 | 530,784 |
| 20 | 2,433,312 | 1,218,312 | 2,217,312 | -38,688 | 13,824 | 13,824 |
| 21 | 2,508,624 | 1,293,624 | 1,380,096 | -29,904 | 249,984 | 249,984 |
| 22 | 2,469,600 | 1,587,600 | 2,719,872 | 1,215,872 | 317,376 | 317,376 |
| 23 | 2,600,640 | 1,718,640 | 2,098,944 | 1,534,944 | 12,384 | 12,384 |
| 24 | 2,541,744 | 1,716,744 | 2,265,984 | 1,713,984 | 11,520 | 11,520 |
| 25 | 2,577,600 | 1,752,600 | 2,952,000 | 1,572,000 | 12,096 | 12,096 |
| 26 | 2,437,344 | 1,612,344 | 115,488 | 115,488 | 20,160 | 20,160 |
| 27 | 2,293,056 | 1,468,056 | 2,836,800 | 1,526,800 | 11,232 | 11,232 |
| 28 | 2,350,512 | 1,525,512 | 1,963,872 | 1,439,872 | 13,248 | 13,248 |
| 29 | 2,272,896 | 1,519,896 | 2,028,384 | 1,428,384 | 12,960 | 12,960 |
| 30 | 2,513,376 | 1,760,376 | 2,058,336 | 1,155,336 | 12,384 | 12,384 |
| 31 | 2,446,272 | 1,693,272 | 2,511,936 | 1,161,936 | 12,672 | 12,672 |
| Total | 70,159,104 | 34,321,104 | 52,804,224 | 17,250,224 | 4,257,792 | 4,257,792 |

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

July 1998

| Date | Coastal Branch | | | | | California Aqueduct | | | |
|-------|----------------|-------------|------------|-----------|-----------|---------------------|------------|------------|-------------|
| | Las Perillas | Badger Hill | Devils Den | Bluestone | Polonio | Buena Vista | Teerink | Chrisman | Edmonston |
| 1 | 54,870 | 152,504 | 66,132 | 69,066 | 66,996 | 781,632 | 643,248 | 1,344,096 | 4,531,680 |
| 2 | 50,008 | 141,928 | 65,628 | 67,986 | 65,484 | 802,368 | 665,208 | 1,376,928 | 4,590,720 |
| 3 | 48,450 | 138,432 | 59,472 | 61,128 | 60,480 | 780,840 | 653,616 | 1,339,776 | 4,701,600 |
| 4 | 49,004 | 138,568 | 66,654 | 68,598 | 67,680 | 751,752 | 654,120 | 1,319,616 | 4,215,600 |
| 5 | 47,792 | 136,080 | 65,286 | 67,428 | 66,276 | 662,688 | 529,056 | 1,108,512 | 3,793,680 |
| 6 | 52,460 | 145,096 | 55,674 | 56,520 | 56,574 | 681,120 | 594,216 | 1,207,584 | 4,083,840 |
| 7 | 55,818 | 154,000 | 59,760 | 61,596 | 60,642 | 793,440 | 672,192 | 1,408,608 | 4,681,440 |
| 8 | 56,564 | 157,528 | 54,468 | 56,646 | 55,062 | 785,664 | 655,776 | 1,344,096 | 4,339,440 |
| 9 | 49,734 | 137,624 | 50,490 | 55,278 | 54,324 | 729,000 | 569,376 | 1,217,664 | 4,152,240 |
| 10 | 56,534 | 157,512 | 70,110 | 71,892 | 69,516 | 815,472 | 690,840 | 1,448,352 | 4,923,360 |
| 11 | 48,074 | 136,760 | 73,098 | 73,998 | 72,450 | 650,736 | 538,992 | 1,147,104 | 3,788,640 |
| 12 | 45,446 | 127,632 | 64,908 | 67,446 | 66,870 | 630,720 | 502,992 | 1,077,120 | 3,803,760 |
| 13 | 44,092 | 114,848 | 50,040 | 52,614 | 52,614 | 655,200 | 588,888 | 1,219,680 | 4,304,160 |
| 14 | 54,542 | 151,808 | 80,334 | 81,522 | 79,380 | 877,608 | 804,888 | 1,656,000 | 5,703,120 |
| 15 | 52,278 | 149,136 | 64,818 | 67,050 | 65,772 | 893,448 | 805,392 | 1,639,008 | 5,656,320 |
| 16 | 44,768 | 130,968 | 62,604 | 63,774 | 63,648 | 936,216 | 787,392 | 1,639,872 | 5,653,440 |
| 17 | 55,170 | 153,672 | 75,528 | 76,752 | 76,482 | 922,680 | 841,464 | 1,734,624 | 5,778,000 |
| 18 | 58,720 | 162,904 | 69,966 | 71,460 | 71,568 | 991,656 | 826,488 | 1,765,728 | 6,036,480 |
| 19 | 61,186 | 169,792 | 71,496 | 72,918 | 73,314 | 1,028,736 | 960,264 | 2,071,872 | 7,204,320 |
| 20 | 59,958 | 167,216 | 63,594 | 64,386 | 65,160 | 907,128 | 806,040 | 1,665,504 | 5,903,280 |
| 21 | 59,080 | 165,864 | 86,598 | 88,308 | 86,148 | 951,192 | 914,328 | 1,990,272 | 6,492,240 |
| 22 | 57,336 | 161,336 | 56,232 | 57,924 | 57,744 | 914,760 | 735,408 | 1,558,080 | 5,412,240 |
| 23 | 53,344 | 148,864 | 65,106 | 66,384 | 67,572 | 1,108,656 | 952,416 | 2,106,432 | 7,212,960 |
| 24 | 52,030 | 147,016 | 76,824 | 79,200 | 78,786 | 1,022,976 | 938,376 | 2,035,008 | 6,924,960 |
| 25 | 56,144 | 155,040 | 53,514 | 55,458 | 54,576 | 989,784 | 905,472 | 1,965,024 | 6,631,920 |
| 26 | 60,692 | 169,848 | 72,810 | 74,934 | 72,792 | 1,020,168 | 953,712 | 2,044,512 | 7,303,680 |
| 27 | 57,826 | 160,584 | 52,290 | 54,738 | 54,954 | 913,752 | 823,680 | 1,810,368 | 6,313,680 |
| 28 | 59,136 | 167,112 | 60,732 | 62,154 | 61,164 | 956,880 | 867,096 | 1,846,944 | 6,105,600 |
| 29 | 61,352 | 169,880 | 57,924 | 59,616 | 58,464 | 969,768 | 859,752 | 1,846,944 | 6,195,600 |
| 30 | 61,182 | 169,872 | 76,590 | 79,200 | 77,544 | 962,352 | 858,816 | 1,853,280 | 6,325,200 |
| 31 | 58,974 | 163,336 | 73,782 | 76,158 | 73,728 | 935,640 | 861,696 | 1,852,992 | 6,330,240 |
| Total | 1,682,564 | 4,702,760 | 2,022,462 | 2,082,132 | 2,053,764 | 26,824,032 | 23,461,200 | 49,641,600 | 169,093,440 |

Table 38. Southern Field Division Energy Data

(in kWh)

July 1998

| Date | West Branch | | | East Branch | | | |
|-------|---------------|------------|----------------|-------------|---------------|--------------|---------------|
| | Oso | Warne | Castaic | Alamo | Pearblossom | Devil Canyon | Mojave Siphon |
| | Pumping Plant | Powerplant | Powerplant | Powerplant | Pumping Plant | Powerplant | Powerplant |
| | Load | Generation | SWP Generation | Generation | Load | Generation | Generation |
| 1 | 148,008 | 363,960 | 480,000 | 178,220 | 677,160 | 1,338,912 | 81,291 |
| 2 | 161,336 | 363,024 | 480,000 | 169,932 | 690,540 | 1,479,264 | 76,797 |
| 3 | 164,864 | 479,160 | 480,000 | 175,392 | 735,648 | 1,411,488 | 77,763 |
| 4 | 121,128 | 119,592 | 480,000 | 171,892 | 604,500 | 1,235,136 | 80,241 |
| 5 | 96,768 | 156,816 | 480,000 | 152,348 | 659,880 | 1,269,024 | 80,913 |
| 6 | 86,016 | 358,416 | 480,000 | 183,204 | 758,964 | 1,429,152 | 81,564 |
| 7 | 165,144 | 416,232 | 480,000 | 172,452 | 758,412 | 1,745,760 | 84,966 |
| 8 | 165,032 | 368,856 | 480,000 | 158,284 | 632,736 | 1,384,896 | 79,338 |
| 9 | 179,088 | 466,992 | 480,000 | 48,496 | 693,516 | 1,476,000 | 73,836 |
| 10 | 156,968 | 370,584 | 480,000 | 45,836 | 645,168 | 1,570,464 | 69,342 |
| 11 | 158,256 | 362,376 | 480,000 | 129,696 | 578,988 | 1,129,632 | 67,683 |
| 12 | 96,376 | 0 | 480,000 | 154,812 | 672,684 | 1,319,520 | 88,683 |
| 13 | 83,384 | 620,496 | 840,000 | 187,740 | 806,448 | 1,392,960 | 78,666 |
| 14 | 266,280 | 617,472 | 840,000 | 179,732 | 779,952 | 2,001,024 | 79,842 |
| 15 | 146,440 | 509,256 | 840,000 | 228,424 | 1,058,460 | 2,021,568 | 106,974 |
| 16 | 190,848 | 377,568 | 840,000 | 206,528 | 934,044 | 1,817,664 | 120,288 |
| 17 | 191,464 | 338,760 | 840,000 | 103,768 | 1,005,144 | 1,957,152 | 132,972 |
| 18 | 166,600 | 497,952 | 840,000 | 243,880 | 1,114,788 | 2,503,872 | 132,573 |
| 19 | 219,520 | 0 | 840,000 | 287,644 | 1,274,664 | 2,023,968 | 106,995 |
| 20 | 89,488 | 451,584 | 600,000 | 234,640 | 1,259,868 | 2,657,184 | 165,942 |
| 21 | 185,696 | 449,568 | 600,000 | 227,192 | 1,194,048 | 2,342,496 | 154,560 |
| 22 | 186,760 | 513,792 | 600,000 | 205,856 | 995,124 | 2,090,208 | 118,461 |
| 23 | 233,184 | 558,792 | 600,000 | 255,724 | 1,140,168 | 2,188,224 | 125,181 |
| 24 | 237,664 | 483,840 | 600,000 | 238,588 | 956,052 | 2,199,264 | 85,575 |
| 25 | 234,360 | 515,304 | 600,000 | 244,104 | 1,069,620 | 2,051,424 | 176,904 |
| 26 | 247,576 | 305,424 | 600,000 | 281,260 | 1,142,220 | 2,071,200 | 121,989 |
| 27 | 232,624 | 847,080 | 600,000 | 230,496 | 1,062,804 | 2,298,048 | 123,795 |
| 28 | 232,120 | 537,048 | 600,000 | 219,324 | 1,001,880 | 1,977,888 | 125,349 |
| 29 | 238,056 | 714,312 | 600,000 | 219,156 | 973,440 | 2,144,832 | 111,825 |
| 30 | 386,288 | 156,024 | 600,000 | 163,912 | 910,080 | 1,906,272 | 93,009 |
| 31 | 284,648 | 606,744 | 600,000 | 211,624 | 828,876 | 1,525,920 | 102,165 |
| Total | 5,751,984 | 12,927,024 | 18,840,000 | 5,910,156 | 27,615,876 | 55,960,416 | 3,205,482 |